

INITIAL ABATEMENT ACTION REPORT

TT-2989

**TARAWA TERRACE
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

JANUARY 27, 2010

**NAVY CONTRACT NO. N40085-09-D-3235
CATLIN PROJECT NO. 209-112**

PREPARED BY:

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CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES: C-0585

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1.0 SITE INFORMATION

1.1 SITE IDENTIFICATION

Date of Report: January 27, 2010
Facility I.D.: Not Applicable UST Incident Number (if known): Pending
Site Name: TT-2989
Site Street Address: TT-2989 Saipan Drive
City/Town: Camp Lejeune Zip Code: 28542 County: Onslow
Description of Geographical Data Point: Approximate former tank basin
Location Method: Marine Corps Base Camp Lejeune GIS (see Figure 1)
Latitude: 34° 44' 11.65" N Longitude: 77° 22' 38.75" W

1.2 CONTACT INFORMATION

UST Owner and Operator: Commanding Officer, Marine Corps Base (MCB)
Address: PSC 20004 – MCB, Camp Lejeune, NC 28542-0004
Phone: 910-451-5068

Property Owner: Commanding Officer, MCB
Address: PSC 20004 – MCB, Camp Lejeune, NC 28542-0004
Phone: 910-451-5068

Property Occupant: Currently Vacant (Demolished)
Address: Commanding Officer, MCB
PSC 20004 – MCB, Camp Lejeune, NC 28542-0004
Phone: None

Consultant/Contractor: CATLIN Engineers and Scientists (CATLIN)
Address: 220 Old Dairy Road – Wilmington, NC 28405
Phone: 910-452-5861

Analytical Laboratory: Pace Analytical Services, Inc. (Pace)
State Certification No.: 5342
Address: 9800 Kincey Ave. Suite 100 – Huntersville, NC 28078
Phone: 704-875-9092

Closure Contractor: TMS Envirocon, Inc. (TMS)
Address: T1 Cherry Point Trailer, Bldg. 4376T – Cherry Point, NC 28533
Phone: 252-447-1700

1.3 RELEASE INFORMATION

Date Discovered: December 29, 2009
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release (Piping/UST): Unknown
Sizes and contents of UST system from which the release occurred: 550-gallon heating oil tank

1.4 CERTIFICATION

I, Jeffery K. Becken, a Professional Engineer for CATLIN, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



CATLIN is licensed to practice engineering in North Carolina. The certification number of the company is C-0585.

2.0 SITE HISTORY AND CHARACTERIZATION

The site is located within the Tarawa Terrace Housing Area aboard the MCB Camp Lejeune. The site vicinity is illustrated on Figure 1. The site is in an area where existing housing has been demolished and will be used to re-build military housing units. As a result, land use should be categorized as Residential. The UST was an inactive home heating oil tank previously used to store #2 Heating Oil for on-site use and was removed by TMS. The former UST location is illustrated on Figure 2. The tank owner and operator have always been the Marine Corps; however, tank installation date is unknown. Owner and operator contact information as provided in Section 1.2 is summarized on Table 1. No previous releases have been reported in conjunction with this tank. The UST system (and release) site history is provided on Table 2.

The site lies within the Tidewater Region of the Coastal Plain Physiographic Province of North Carolina, where large streams and many of their tributaries are affected by ocean tides. The predominant soil type at the site is silty sand to sand of Quarternary surficial deposits. The depth to the underlain Tertiary Castle Hayne limestone/sand is unknown, but is estimated to be more than 30 feet.

As illustrated on Figure 3 and indicated on Table 3, the nearest surface water body is an unnamed tributary of French Creek and is approximately 450 feet north of the site. Groundwater flow direction in the surficial aquifer is assumed to flow north toward the unnamed tributary. There are no water supply wells within a 1,500 foot radius of the site, and all buildings in the area are supplied by the MCB water supply system, specifically water from the Holcomb Boulevard Water Treatment Plant

(WTP). The ongoing new construction in the area is being connected to water supplied by the Holcomb Boulevard WTP.

The nearest place of public assembly is unknown at this time as the entire area is being redeveloped with new residential housing units. Community playgrounds may be planned in the area where the new housing units are to be constructed.

3.0 UST CLOSURE

3.1 PREPARATIONS

As previously mentioned, there was no record or indications of a release from the non-commercial, non-regulated heating oil tank prior to removal (excavation) activities. Therefore, submittal of a Notice of Intent (UST-3 Form) was not required. According to TMS, the tank and any nearby underground utilities were pre-located and surveyed prior to UST closure to prevent damage or UST releases by subcontractors of Actus Lend Lease (Actus) during demolition and construction in the area.

On December 29, 2009 an access hole was cut into the top of the tank in order to remove residual liquid contents from tank. A vacuum truck was used to remove tank contents.

3.2 PROCEDURES

As documented by TMS, following removal of residual material, acceptable vapor readings inside the tank were measured with a Lower Explosive Limit (LEL) and oxygen meter. Sufficient soils were then removed from the top and sides of the tank allowing it to be lifted from the excavation. Excavated soils were stockpiled (temporarily) on plastic near the site.

The top of the tank was approximately two (2) feet BLS. The tank was found to be made of welded steel and measured four (4) feet in diameter by six (6) feet long with a capacity of approximately 550 gallons.

According to TMS, a mix of sandy/clayey soils around the UST revealed petroleum odor and elevated Photo Ionization Detector (PID) readings. The North Carolina Department of Environment and Natural Resources (NCDENR) Wilmington Regional Office (WiRO) was notified of a suspected release and the UST-61 "24-Hour Notice of Release and UST Leak Reporting Form" is provided in Appendix A.

One UST closure soil sample (TT-2989-B-7.5) was collected beneath the bottom of the tank at approximately 7.5 feet BLS. The TT-2989-B-7.5 UST closure soil sample location is illustrated on Figure 2. The soil sample was collected from the excavator bucket by hand while wearing new, disposable

gloves and placed into laboratory provided glassware, properly labeled, and placed on ice in an insulated cooler. The sample was transferred to a Pace courier following proper chain-of-custody protocol and submitted for Total Petroleum Hydrocarbon (TPH) Diesel and Gasoline Range Organics (DRO and GRO) analysis per Environmental Protection Agency (EPA) Method 8015, volatile and semi-volatile organics analysis per EPA Methods 8260, 8270, and Massachusetts Department of Environmental Protection (MADEP) Extractable and Volatile Petroleum Hydrocarbons (EPH and VPH). Groundwater was not encountered during UST closure activities. A *Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)* form is included in Appendix B.

3.3 RESIDUAL MATERIAL AND DISPOSAL

Certificates of disposal have not been provided by the disposal facilities prior to this report. Certificates of disposal will be forthcoming. According to TMS, approximately 550 gallons of contaminated water was pumped from the tank and properly disposed by Environmental Management Division (EMD), Resource Conservation and Recovery Section (RCRS) at Building 977. The stockpiled soils are awaiting transportation for disposal at the P&F Land Farming Facility, Permit# SR0500106, in Whitakers, NC. The tank was removed and transported to the TMS Laydown Area (MCAS Cherry Point) for cleaning and disposal preparation. TMS personnel noted there were signs of deterioration and corrosion on the bottom of the UST and small holes were observed in the sides. The tank will be transported to Jacksonville Scrap for disposal.

4.0 INITIAL RESPONSE AND ABATEMENT ACTIONS

Before beginning UST closure activities, it was determined that if an indication of a release was noted during tank removal, actions would be taken at that time in an attempt to remediate (remove) any potentially impacted soils. Soils excavated around the UST revealed petroleum odor and elevated PID readings. No free-phase product was discovered during these closure and abatement actions. TMS continued excavating suspected soil contamination based on PID screening immediately following UST removal until clean soils were suspected.

5.0 EXCAVATION OF CONTAMINATED SOIL

5.1 FIELD SCREENING

During UST system removal, soil contamination was suspected based on PID field screening and a strong hydrocarbon odor. According to TMS, the PID was calibrated each morning in the field using the appropriate calibration standard recommended by the PID manufacturer.

5.2 EXCAVATION PROCESS

As previously mentioned, soils were excavated immediately following UST removal and properly stockpiled (temporarily) near the site. Suspected soil contamination was excavated latterly around the former UST location based on obvious odor and periodic PID screening. Grab soil samples were collected by hand while wearing new, disposable gloves and placed in a sealable polyethylene bag for PID headspace screening. Soils that revealed elevated readings were removed and placed on the nearby stockpile. Soil excavating ceased when all indications of petroleum impacted soils were removed. Overall excavation limits measured 17 feet by 13 feet by 7.5 feet deep. Groundwater was not encountered during soil excavation activities. The excavation limits are illustrated on Figure 2.

5.3 CONFIRMATION SOIL SAMPLING

Undisturbed sidewall soils from approximately five (5) feet BLS were obtained by TMS personnel from each excavation sidewall utilizing the excavator bucket. The undisturbed soils from each sidewall were removed from the excavator bucket by hand while wearing new disposable gloves and packed directly into the appropriate laboratory provided glassware, and placed on ice in an insulated cooler. The excavation confirmation sample identifications, sample date and time are provided on the chain-of-custody following the laboratory analytical report in Appendix C. The four (4) excavation confirmation sidewall samples (TT-2989-1, TT-2989-2, TT-2989-3, and TT-2989-4) were transferred to a Pace courier following proper chain-of-custody protocol and submitted for TPH DRO and GRO analysis per EPA Method 8015, Risk-Based volatile and semi-volatile organics analysis per EPA Methods 8260, 8270, and MADEP EPH and VPH analysis. Discussion related to the bottom soil sample (TT-2989-B-7.5) has been previously noted in Section 3.2 of this report.

5.4 QUALITY CONTROL MEASURES

New disposable gloves were used for each sampling event. Undisturbed soil samples were collected by hand from the excavator bucket and packed directly into new laboratory provided glassware.

All samples were placed into appropriate sample jars (provided by the laboratory) with Teflon[®] lid liners, labeled with the site location, date and time, initials of person collecting sample, sample identification number, depth of sample, and tests required. Samples were then placed on ice in a cooler and maintained at approximately 4° Celsius during storage and transport to the laboratory. A temperature blank and trip blank were preserved in the cooler along with the site samples. A chain-of-custody form was maintained from the point of sampling until delivery to the laboratory.

No duplicate samples were submitted for laboratory analysis. According to the attached laboratory report (see Appendix C), the sample results are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards and analytical quality control data is available upon request.

6.0 RESULTS

The UST closure soil sample TT-2989-B-7.5 and soil excavation confirmation soil samples TT-2989-1, TT-2989-2, TT-2989-3, and TT-2989-4 did not reveal any detectable TPH or Risk-Based compound concentrations above the laboratory reporting limits or the lowest established Maximum Soil Contaminant Concentrations (MSCCs). The complete laboratory analytical report is provided in Appendix C. The TPH analysis results are summarized on Table 4. The Risk-Based analysis results per EPA Methods 8260 and 8270 are summarized on Table 5. The MADEP EPH and VPH results are provided on Table 6.

Certificates of disposal for the USTs, fluids, and soils were not provided by the disposal facilities at the time of this report. According to TMS, the UST was nearly full of water and approximately 550-gallons were removed and properly disposed by EMD, RCRS at Building 977. Based on a 550-gallon, four (4) feet by six (6) feet, tank with a volume of approximately 75 cubic feet (2.78 cubic yards) and an excavation measuring 17 feet by 13 feet by 7.5 feet deep (61.39 cubic yards), roughly 58.61 cubic yards or 88 tons of soil were removed during UST TT-2989 closure and excavation activities.

7.0 CONCLUSION AND RECOMMENDATIONS

A non-commercial, non-regulated 550-gallon home heating oil UST at TT-2989 that may have leaked, has been removed and properly disposed along with potentially petroleum impacted soils. Petroleum odors and elevated PID soil headspace screening results in soils around the tank may have been the result of a leaking UST system or historical tank overfills. However, laboratory analysis of a soil sample collected beneath the removed tank did not reveal TPH or Risk-Based contaminants of concern above the laboratory reporting or lowest established MSCCs. Groundwater was not encountered during tank removal or soil excavation activities and based on the soil sample collected beneath the tank and samples collected from each of the four (4) sidewalls, no residual contamination or potential secondary source of contamination remains at the site. Therefore, no further action and site closure is requested for the former UST TT-2989 site.

8.0 LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination on the subject site where such contamination may exist. Although accepted methods appropriate for soil sampling were reported by others, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

TABLES

TABLE 1**SITE HISTORY - UST OWNER AND OPERATOR INFORMATION**

Incident Name and No.: TT-2989 - Pending

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator?
TT-2989	Commanding Officer Marine Corps Base Camp Lejeune, NC	Unknown to 12/29/2009	Owner / Operator
Address (Owner / Operator)		Telephone Number (Owner / Operator)	
PSC 20004 Marine Corps Base, Camp Lejeune, 28542		(910) 451-5068	

TABLE 2**SITE HISTORY - UST SYSTEM AND RELEASE INFORMATION**

Incident Name and No.: TT-2989 - Pending

UST ID Number	Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping	Date Installed	Status of UST	Was Release Associated With UST System?
TT-2989	Heating Oil	Heating Oil	550	Unknown Steel	4' x 6'	Copper	Unknown	Removed - 12/29/2009	Yes (assumed)

TABLE 3

PUBLIC AND PRIVATE WATER SUPPLY WELL AND OTHER RECEPTOR INFORMATION

Incident Name and No.: TT-2989 - Pending

Well #	Well Owner/User (indicate which)	Address	Phone Number	Well Use	Well Depth (ft. BLS)	Type of Well	Well Casing Depth (ft. BLS)	Well Screen Interval (x to y ft. BLS)	Distance from source area of release (ft.)	Up or Down Gradient
None	Not Applicable									

ft. BLS = feet below land surface

Receptor ID	Description	Location	Contact	Phone Number	Usage	Up or Down Gradient	Distance from source area of release (ft.)
Surface Water	Unnamed Tributary	North	Commanding Officer PSC 20004 MCB, Camp Lejeune, 28542	(910) 451-5068	None	Unknown	450

TABLE 4
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHOD 8015

Incident Name and No.: TT-2989 - Pending

Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
	Date Collected	Sample Depth (ft. BLS)		
TT-2989-1	1/6/2010	5	<5.6	<6.3
TT-2989-2	1/6/2010	5	<5.9	<6.4
TT-2989-3	1/6/2010	5	<5.8	<6.2
TT-2989-4	1/6/2010	5	<5.5	<6.3
TT-2989-B-7.5	1/6/2010	7.5	<5.6	<5.7
NCDENR Action Level (mg/kg)			10	10

All results in milligrams per kilogram (mg/kg).

ft. BLS = Feet Below Land Surface

NCDENR = North Carolina Department of Environment and Natural Resources

< = Less than reporting limit

TABLE 5
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHODS 8260 AND 8270

Incident Name and No.: TT-2989 - Pending

Sample ID	Contaminant of Concern →		All EPA Method 8260 Parameters	All EPA Method 8270 Parameters
	Date Collected	Sample Depth (ft. BLS)		
TT-2989-1	1/6/2010	5	BRL	BRL
TT-2989-2	1/6/2010	5	BRL	BRL
TT-2989-3	1/6/2010	5	BRL	BRL
TT-2989-4	1/6/2010	5	BRL	BRL
TT-2989-B-7.5	1/6/2010	7.5	BRL	BRL
Residential MSCC (ug/kg)			Varies	Varies
Industrial/Commercial MSCC (ug/kg)			Varies	Varies
Soil to Groundwater MSCC (ug/kg)			Varies	Varies

ft. BLS = Feet Below Land Surface

BRL = Below Reporting Limit

MSCC = Maximum Soil Contaminant Concentration

ug/kg = micrograms per kilogram

Refer to analytical report for a complete list of parameters and reporting limits.

TABLE 6
SUMMARY OF SOIL LABORATORY RESULTS
MADEP EPH AND VPH

Incident Name and No.: TT-2989 - Pending

Sample ID	Analytical Method →		MADEP EPH			MADEP VPH			MADEP EPH/VPH			
	Contaminant of Concern →		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
	Date Collected	Sample Depth (ft. BLS)										
TT-2989-1	1/6/2010	5	<0.6	<0.3	<0.4	<8.7	<8.7	<8.7	<8.7	<9.3	<0.3	<9.1
TT-2989-2	1/6/2010	5	<0.6	<0.3	<0.4	<9.1	<9.1	<9.1	<9.1	<9.7	<0.3	<9.5
TT-2989-3	1/6/2010	5	<0.6	<0.3	<0.4	<8.6	<8.6	<8.6	<8.6	<9.2	<0.3	<9.0
TT-2989-4	1/6/2010	5	<0.6	<0.3	<0.4	<9.3	<9.3	<9.3	<9.3	<9.9	<0.3	<9.7
TT-2989-B-7.5	1/6/2010	7.5	<0.5	<0.3	<0.4	<9.7	<9.7	<9.7	<9.7	<10.2	<0.3	<10.1
Residential MSCC (mg/kg)									939	1,500	31,000	469
Industrial/Commercial MSCC (mg/kg)									24,528	40,000	810,000	12,264
Soil to Groundwater MSCC (mg/kg)									68	540	#	31

All results in milligrams per kilogram (mg/kg).

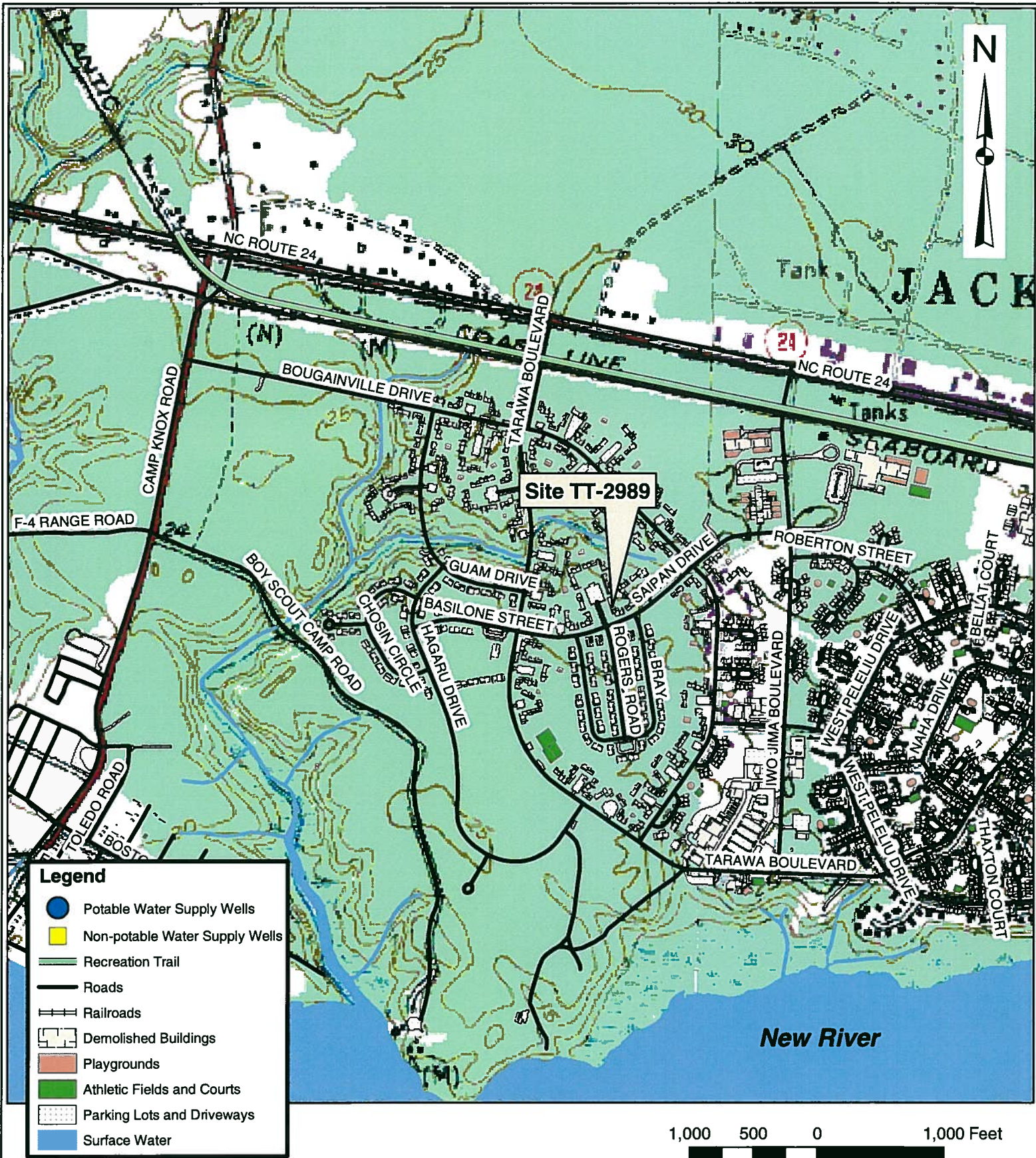
ft. BLS = Feet Below Land Surface

< = Less than reporting limit

MSCC = Maximum Soil Contaminant Concentration

= Health-Based Level (>100%)

FIGURES



Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

 CATLIN Engineers and Scientists 220 Old Dairy Road Wilmington, NC 28405 Corporate Licensure No. for Engineering Services C-0585	PROJECT SITE TT-2989 IAA REPORT MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE USGS TOPOGRAPHIC SITE VICINITY MAP		FIGURE 1	
	JOB NO. 209-112	DATE JAN 2010	SCALE AS SHOWN	DRAWN BY SAC	CHECKED BY MDM	

SITE TT-2989 IAA REPORT MARINE CORPS BASE CAMP LEJEUNE, NC



LEGEND

	Tank Excavation Area		Demolished Buildings and Structures
	Former UST		Slabs
	Soil Sample Locations		Driveways
			Roads
			Woods

NOTES

1. Data layers provided by MCB Camp Lejeune GIS office.
2. Excavation dimensions were approximately 17 feet by 13 feet by 7.5 feet deep.
3. Tank location, excavation boundary and soil sample locations based on site sketch provided by TMS personnel.

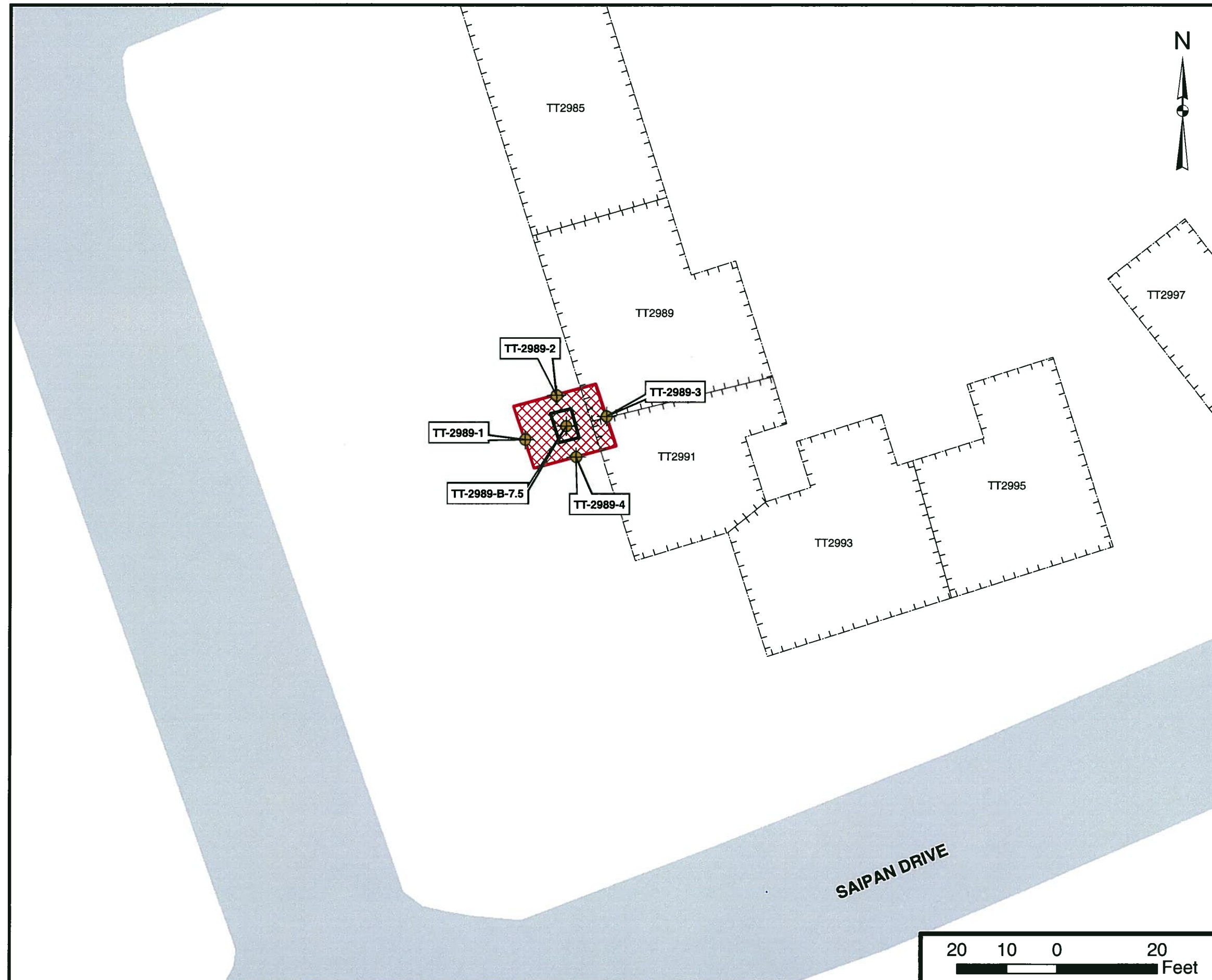


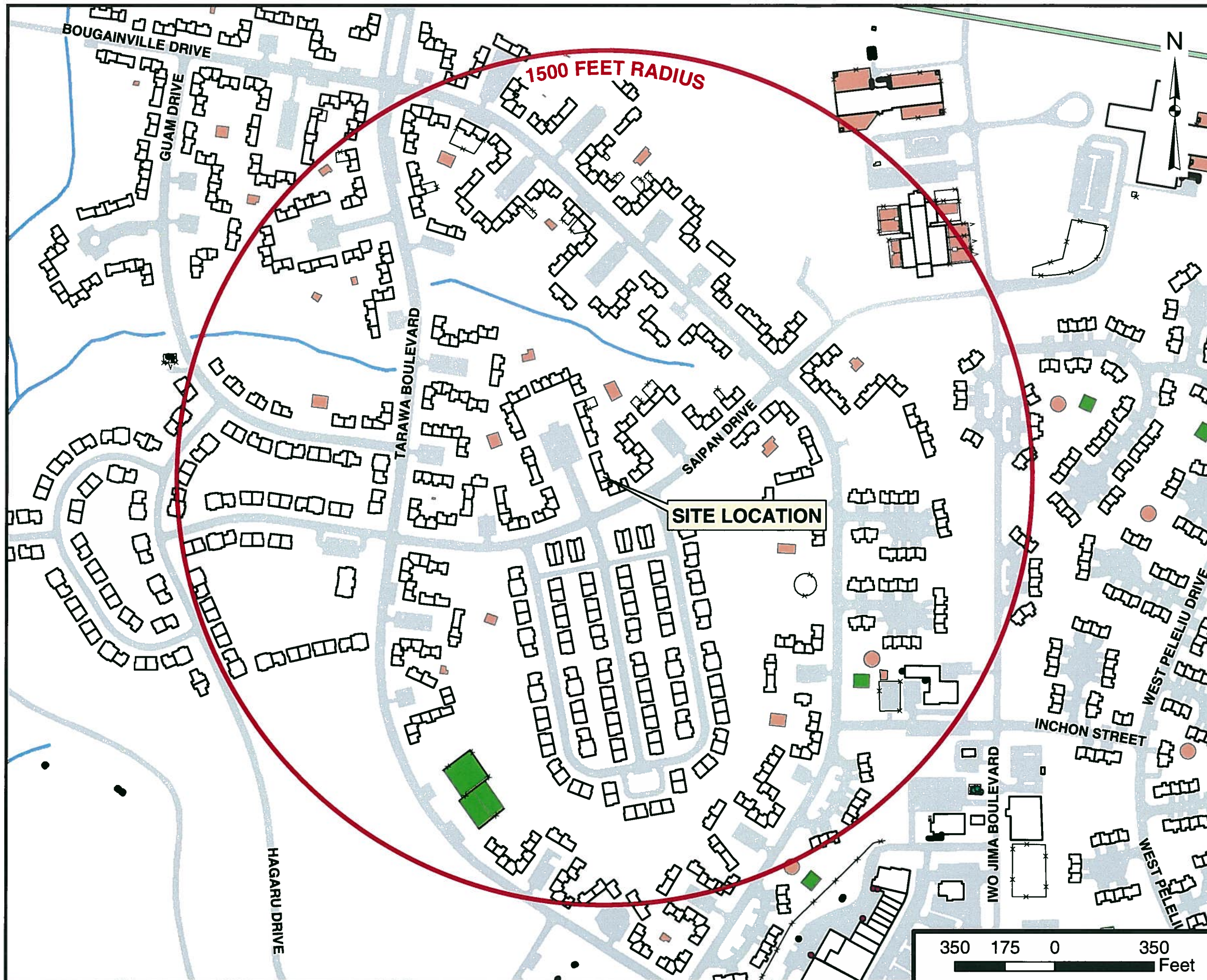
SITE MAP WITH SOIL SAMPLE LOCATIONS

FIGURE

2

Job No.: 209-112	Date: JAN 2010	Scale: AS SHOWN	Drawn By: SAC	Checked By: MDM
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**SITE TT-2989
IAA REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NC**



LEGEND

- | | |
|--------------------------------|--------------------------|
| Water Supply Wells | Buildings and Structures |
| Non-potable Water Supply Wells | Slabs |
| Recreation Trail | Driveways |
| Playgrounds | Parking Lots |
| Athletic Fields and Courts | Roads |
| Creeks and Streams | |

NOTES

1. Data layers provided by MCB Camp Lejeune GIS office.



**SITE MAP WITH
POTENTIAL RECEPTORS**

FIGURE

3

Job No.: 209-112	Date: JAN 2010	Scale: AS SHOWN	Drawn By: SAC	Checked By: MDM
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APPENDICES

APPENDIX A

UST-61 – 24-HOUR RELEASE AND UST LEAK REPORTING FORM

UST-61**24-Hour Release and UST Leak Reporting Form.****For Releases
in NC**

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U) _____
Received On _____ Received By _____
Reported by (circle one): Phone, Fax or Report
Region _____

Suspected Contamination? (Y/N) _____
Confirmed GW Contamination? (Y/N) _____
Confirmed Soil Contamination? (Y/N) _____
Samples Taken? (Y/N) _____
Free Product? (Y/N) _____ If Yes, State Greatest
Thickness _____

Facility ID Number _____
Date Leak Discovered 12/29/09
Comm/Non-Commercial? _____
Reg/Non-regulated? _____

INCIDENT DESCRIPTION

Incident Name: TT-2989 Tank Removal

Address: TT-2989 Tarawa Terrace Blvd

County: Onslow

City/Town: Camp Lejeune

Zip Code: 28542

Regional Office (circle one): Asheville, Mooresville, Fayetteville,
Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): 34 44' 11.75" N Longitude (decimal degrees): 77 22' 37.53" W

Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)

Type of release: #2 Heating Oil. Date/Amount of release

unknown. Samples taken per UST Guidelines. All samples

were below NC DENR action levels. No impacts to receptors

suspected. NFA and site closure proposed. IAA Report

to follow.

Obtained by:

☐ GPS

☐ Topographic map

☒ GIS Address matching

☐ Other

☐ Unknown

Describe location:

HOW RELEASE WAS DISCOVERED (Release Code)

(Check one)

☐ Release Detection Equipment or Methods

☐ During UST Closure/Removal

☒ Property Transfer

☐ Visual/Odor

☐ Water in Tank

☐ Water Supply Well Contamination

☐ Groundwater Contamination

☐ Surface Water Contamination

☐ Other (specify) _____

SOURCE OF CONTAMINATION**Source of Release**

(Check one to indicate primary source)

☒ Tank

☐ Piping

☐ Dispenser

☐ Submersible Turbine Pump

☐ Delivery Problem

☐ Other

☐ Unknown

Cause of Release

(Check one to indicate primary cause)

☐ Spill

☐ Overfill

☐ Corrosion

☐ Physical or Mechanical
Damage

☐ Install Problem

☐ Other

☒ Unknown

Type of Release

(Check one)

☒ Petroleum

☐ Non-Petroleum

☐ Both

Location
(Check one)

☐ Facility

☒ Residence

☐ Other

Product Type Released

(Check one to indicate primary product type released)

☐ Gasoline/ Diesel/
Kerosene

☒ Heating Oil

☐ Other Petroleum
Products

☐ Metals

☐ Other Inorganics

☐ Other Organics

☐ Diesel/Veg. Oil
Blend

☐ Vegetable Oil 100%

☐ E10 - E20

☐ E21 - E84

☐ E85 - E99

☐ Ethanol 100%

☐ E01 - E09

Definitions presented on reverse

Definitions presented on reverse

Ownership

1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type

1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. Unknown

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

- 1.
- 2.
- 3.

UST SYSTEM OWNER

UST Owner/Company
Commanding Officer, Marine Corps Base, Camp Lejeune

Point of Contact
Bruce Markwick

Address
Bldg 12, Post Lane

City
Camp Lejeune

State
NC

Zip Code
28542

Telephone Number
910 451-9660

UST SYSTEM OPERATOR

UST Operator/Company
Same as above

Address

City

State

Zip Code

Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner
Same as above

Address

City

State

Zip Code

Telephone Number

Draw Sketch of Area (showing two major road intersections) or Attach Map

Person Reporting Incident Bruce Markwick Company Environmental Management Division Telephone Number 910 451-9660

Title Environmental Protection Specialist Address Bldg 12 Post Lane Date 1/22/2010

UST Form 61 (02/08)

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Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)

Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

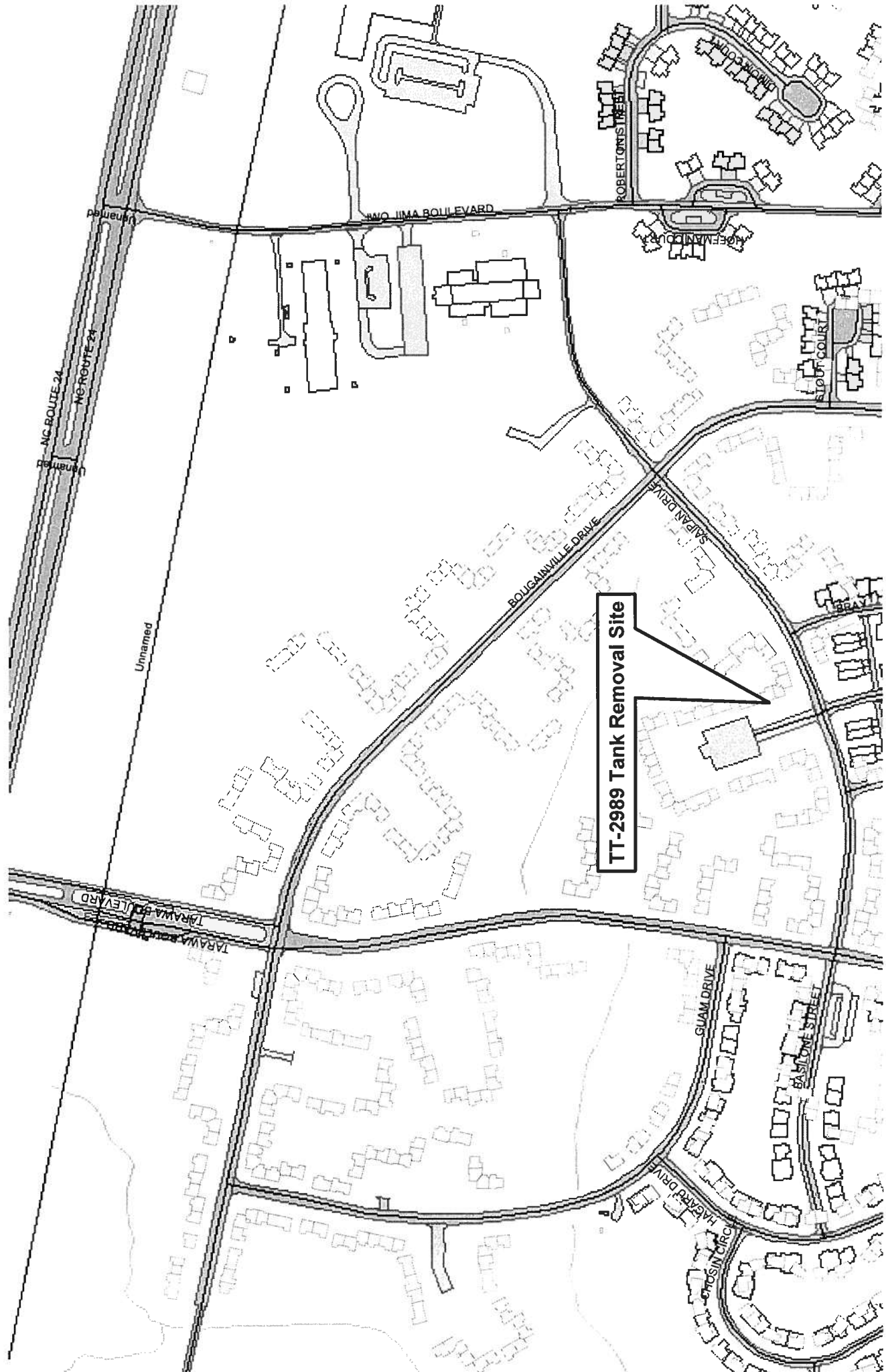
Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)

Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined



TT-2989 Tank Removal Site

APPENDIX B

UST-2 – SITE INVESTIGATION REPORT FOR PERMANENT CLOSURE OF UST

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Commanding Officer Marine Corps Base

Street Address
PSC 20004

City
MCB Camp Lejeune

County
Onslow

State
NC

Zip Code
28542-0004

Phone Number
910-451-5068

II. LOCATION OF TANKS

Facility Name or Company
Tarawa Terrace Housing

Facility ID # (If known)
N/A

Street Address
TT-2989 Tarawa Terrace Blvd

City
MCB Camp Lejeune

County
Onslow

Zip Code
28542

Phone Number
None

III. CONTACT PERSONNEL

Contact for Facility:
Bruce Markwick

Closure Contractor Name:
Rob Finley

Primary Consultant Name:
Michael E. Mason, PE

Closure Contractor Company:
TMS

Primary Consultant Company:
Catlin

Job Title:
Environmental Protection Specialist

Address:
Laydown Area-Gas House Rd

Address:
220 Old Dairy Rd Wilmington, NC

Phone. No:
910-451-9660

Phone. No:
252-447-1700

Phone. No:
910-451-5861

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
1	550	4' x 6'	Heating Oil	Unknown	~~12/28/00~~ 12/29/09 <i>DOC</i>	See Above	☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative
Nick Schultz, MCB Camp Lejeune Environmental Engineer

Signature

Nick Schultz

Date Signed
1/22/2010

APPENDIX C

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

January 14, 2010

Rob Finley
MEC Corp.
1305 Lejeune Blvd
Jacksonville, NC 28540

RE: Project: TT-2 Tank Yank
Pace Project No.: 9260831

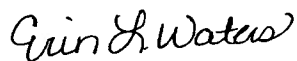
Dear Rob Finley:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Erin Waters for
Ashley Nifong
ashley.nifong@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Becken, Catlin Engineers & Scientists
Mike Rohrer, MEC Corp.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Charlotte Certification IDs

9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Connecticut Certification #: PH-0104
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12

North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
West Virginia Certification #: 357

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9260831001	TT-2989-1	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831002	TT-2989-2	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831003	TT-2989-3	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831004	TT-2989-4	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831005	TT-2989-B-7.5	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831006	TT-3019-2	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831007	TT-3019-3	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9260831008	TT-3019-4	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9260831009	TT-3019-B-10	MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
9260831010	TT-3019-1	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		MADEP VPH	DHW	5	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-1 **Lab ID:** 9260831001 **Collected:** 01/06/10 10:45 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.3	1	01/11/10 00:00	01/13/10 21:03	68334-30-5	
n-Pentacosane (S)	82	%	50-135	1	01/11/10 00:00	01/13/10 21:03	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.6	1	01/12/10 13:04	01/12/10 22:22	8006-61-9	
4-Bromofluorobenzene (S)	127	%	50-135	1	01/12/10 13:04	01/12/10 22:22	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND	mg/kg	8.7	1	01/12/10 16:21	01/13/10 23:57		
Aliphatic (C09-C12)	ND	mg/kg	8.7	1	01/12/10 16:21	01/13/10 23:57		
Aromatic (C09-C10)	ND	mg/kg	8.7	1	01/12/10 16:21	01/13/10 23:57		
2,5-Dibromotoluene (PID)(S)	116	%	70-130	1	01/12/10 16:21	01/13/10 23:57		
2,5-Dibromotoluene (FID)(S)	123	%	70-130	1	01/12/10 16:21	01/13/10 23:57		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND	ug/kg	93.4	1		01/11/10 06:25	67-64-1	
Benzene	ND	ug/kg	4.7	1		01/11/10 06:25	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		01/11/10 06:25	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		01/11/10 06:25	75-27-4	
Bromoform	ND	ug/kg	4.7	1		01/11/10 06:25	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		01/11/10 06:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.4	1		01/11/10 06:25	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		01/11/10 06:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		01/11/10 06:25	75-00-3	
Chloroform	ND	ug/kg	4.7	1		01/11/10 06:25	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		01/11/10 06:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		01/11/10 06:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		01/11/10 06:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		01/11/10 06:25	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		01/11/10 06:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		01/11/10 06:25	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		01/11/10 06:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		01/11/10 06:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 06:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 06:25	156-59-2	

Date: 01/14/2010 03:42 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-2989-1 Lab ID: 9260831001 Collected: 01/06/10 10:45 Received: 01/07/10 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 06:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:25	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		01/11/10 06:25	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		01/11/10 06:25	87-68-3	
2-Hexanone	ND	ug/kg	46.7	1		01/11/10 06:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		01/11/10 06:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		01/11/10 06:25	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		01/11/10 06:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.7	1		01/11/10 06:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		01/11/10 06:25	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		01/11/10 06:25	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	103-65-1	
Styrene	ND	ug/kg	4.7	1		01/11/10 06:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		01/11/10 06:25	127-18-4	
Toluene	ND	ug/kg	4.7	1		01/11/10 06:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 06:25	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		01/11/10 06:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		01/11/10 06:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		01/11/10 06:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:25	108-67-8	
Vinyl acetate	ND	ug/kg	46.7	1		01/11/10 06:25	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		01/11/10 06:25	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		01/11/10 06:25	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		01/11/10 06:25	1330-20-7	
o-Xylene	ND	ug/kg	4.7	1		01/11/10 06:25	95-47-6	
Dibromofluoromethane (S)	99 %		79-116	1		01/11/10 06:25	1868-53-7	
Toluene-d8 (S)	104 %		88-110	1		01/11/10 06:25	2037-26-5	
4-Bromofluorobenzene (S)	99 %		74-115	1		01/11/10 06:25	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		69-121	1		01/11/10 06:25	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	20.8 %	0.10	1	01/08/10 17:43
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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-2 **Lab ID:** 9260831002 **Collected:** 01/06/10 10:35 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.4	1	01/11/10 00:00	01/12/10 18:40	68334-30-5	
n-Pentacosane (S)	82 %		50-135	1	01/11/10 00:00	01/12/10 18:40	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.9	1	01/12/10 13:04	01/12/10 22:47	8006-61-9	
4-Bromofluorobenzene (S)	115 %		50-135	1	01/12/10 13:04	01/12/10 22:47	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		9.1	1	01/12/10 16:21	01/13/10 04:32		
Aliphatic (C09-C12)	ND mg/kg		9.1	1	01/12/10 16:21	01/13/10 04:32		
Aromatic (C09-C10)	ND mg/kg		9.1	1	01/12/10 16:21	01/13/10 04:32		
2,5-Dibromotoluene (PID)(S)	91 %		70-130	1	01/12/10 16:21	01/13/10 04:32		
2,5-Dibromotoluene (FID)(S)	118 %		70-130	1	01/12/10 16:21	01/13/10 04:32		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		94.5	1		01/11/10 06:47	67-64-1	
Benzene	ND ug/kg		4.7	1		01/11/10 06:47	71-43-2	
Bromobenzene	ND ug/kg		4.7	1		01/11/10 06:47	108-86-1	
Bromochloromethane	ND ug/kg		4.7	1		01/11/10 06:47	74-97-5	
Bromodichloromethane	ND ug/kg		4.7	1		01/11/10 06:47	75-27-4	
Bromoform	ND ug/kg		4.7	1		01/11/10 06:47	75-25-2	
Bromomethane	ND ug/kg		9.4	1		01/11/10 06:47	74-83-9	
2-Butanone (MEK)	ND ug/kg		94.5	1		01/11/10 06:47	78-93-3	
n-Butylbenzene	ND ug/kg		4.7	1		01/11/10 06:47	104-51-8	
sec-Butylbenzene	ND ug/kg		4.7	1		01/11/10 06:47	135-98-8	
tert-Butylbenzene	ND ug/kg		4.7	1		01/11/10 06:47	98-06-6	
Carbon tetrachloride	ND ug/kg		4.7	1		01/11/10 06:47	56-23-5	
Chlorobenzene	ND ug/kg		4.7	1		01/11/10 06:47	108-90-7	
Chloroethane	ND ug/kg		9.4	1		01/11/10 06:47	75-00-3	
Chloroform	ND ug/kg		4.7	1		01/11/10 06:47	67-66-3	
Chloromethane	ND ug/kg		9.4	1		01/11/10 06:47	74-87-3	
2-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 06:47	95-49-8	
4-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 06:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.7	1		01/11/10 06:47	96-12-8	
Dibromochloromethane	ND ug/kg		4.7	1		01/11/10 06:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.7	1		01/11/10 06:47	106-93-4	
Dibromomethane	ND ug/kg		4.7	1		01/11/10 06:47	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 06:47	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 06:47	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 06:47	106-46-7	
Dichlorodifluoromethane	ND ug/kg		9.4	1		01/11/10 06:47	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.7	1		01/11/10 06:47	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.7	1		01/11/10 06:47	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.7	1		01/11/10 06:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.7	1		01/11/10 06:47	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-2 **Lab ID:** 9260831002 **Collected:** 01/06/10 10:35 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 06:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 06:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 06:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		01/11/10 06:47	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		01/11/10 06:47	87-68-3	
2-Hexanone	ND	ug/kg	47.2	1		01/11/10 06:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		01/11/10 06:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		01/11/10 06:47	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		01/11/10 06:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.2	1		01/11/10 06:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		01/11/10 06:47	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		01/11/10 06:47	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		01/11/10 06:47	103-65-1	
Styrene	ND	ug/kg	4.7	1		01/11/10 06:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 06:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 06:47	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		01/11/10 06:47	127-18-4	
Toluene	ND	ug/kg	4.7	1		01/11/10 06:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 06:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 06:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 06:47	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		01/11/10 06:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		01/11/10 06:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		01/11/10 06:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 06:47	108-67-8	
Vinyl acetate	ND	ug/kg	47.2	1		01/11/10 06:47	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		01/11/10 06:47	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		01/11/10 06:47	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		01/11/10 06:47	1330-20-7	
o-Xylene	ND	ug/kg	4.7	1		01/11/10 06:47	95-47-6	
Dibromofluoromethane (S)	100 %		79-116	1		01/11/10 06:47	1868-53-7	
Toluene-d8 (S)	102 %		88-110	1		01/11/10 06:47	2037-26-5	
4-Bromofluorobenzene (S)	98 %		74-115	1		01/11/10 06:47	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		69-121	1		01/11/10 06:47	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **21.7 %** 0.10 1 01/08/10 17:43

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-3 **Lab ID:** 9260831003 **Collected:** 01/06/10 10:20 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.2	1	01/11/10 00:00	01/13/10 21:32	68334-30-5	
n-Pentacosane (S)	87 %		50-135	1	01/11/10 00:00	01/13/10 21:32	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.8	1	01/12/10 13:04	01/12/10 23:12	8006-61-9	
4-Bromofluorobenzene (S)	109 %		50-135	1	01/12/10 13:04	01/12/10 23:12	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		8.6	1	01/12/10 16:21	01/13/10 04:57		
Aliphatic (C09-C12)	ND mg/kg		8.6	1	01/12/10 16:21	01/13/10 04:57		
Aromatic (C09-C10)	ND mg/kg		8.6	1	01/12/10 16:21	01/13/10 04:57		
2,5-Dibromotoluene (PID)(S)	105 %		70-130	1	01/12/10 16:21	01/13/10 04:57		
2,5-Dibromotoluene (FID)(S)	130 %		70-130	1	01/12/10 16:21	01/13/10 04:57		S3
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		94.8	1		01/11/10 07:05	67-64-1	
Benzene	ND ug/kg		4.7	1		01/11/10 07:05	71-43-2	
Bromobenzene	ND ug/kg		4.7	1		01/11/10 07:05	108-86-1	
Bromochloromethane	ND ug/kg		4.7	1		01/11/10 07:05	74-97-5	
Bromodichloromethane	ND ug/kg		4.7	1		01/11/10 07:05	75-27-4	
Bromoform	ND ug/kg		4.7	1		01/11/10 07:05	75-25-2	
Bromomethane	ND ug/kg		9.5	1		01/11/10 07:05	74-83-9	
2-Butanone (MEK)	ND ug/kg		94.8	1		01/11/10 07:05	78-93-3	
n-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:05	104-51-8	
sec-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:05	135-98-8	
tert-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:05	98-06-6	
Carbon tetrachloride	ND ug/kg		4.7	1		01/11/10 07:05	56-23-5	
Chlorobenzene	ND ug/kg		4.7	1		01/11/10 07:05	108-90-7	
Chloroethane	ND ug/kg		9.5	1		01/11/10 07:05	75-00-3	
Chloroform	ND ug/kg		4.7	1		01/11/10 07:05	67-66-3	
Chloromethane	ND ug/kg		9.5	1		01/11/10 07:05	74-87-3	
2-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 07:05	95-49-8	
4-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 07:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.7	1		01/11/10 07:05	96-12-8	
Dibromochloromethane	ND ug/kg		4.7	1		01/11/10 07:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.7	1		01/11/10 07:05	106-93-4	
Dibromomethane	ND ug/kg		4.7	1		01/11/10 07:05	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:05	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:05	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:05	106-46-7	
Dichlorodifluoromethane	ND ug/kg		9.5	1		01/11/10 07:05	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.7	1		01/11/10 07:05	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.7	1		01/11/10 07:05	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.7	1		01/11/10 07:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.7	1		01/11/10 07:05	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-3 **Lab ID:** 9260831003 **Collected:** 01/06/10 10:20 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 07:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:05	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		01/11/10 07:05	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		01/11/10 07:05	87-68-3	
2-Hexanone	ND	ug/kg	47.4	1		01/11/10 07:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		01/11/10 07:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		01/11/10 07:05	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		01/11/10 07:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.4	1		01/11/10 07:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		01/11/10 07:05	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		01/11/10 07:05	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		01/11/10 07:05	103-65-1	
Styrene	ND	ug/kg	4.7	1		01/11/10 07:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 07:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 07:05	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		01/11/10 07:05	127-18-4	
Toluene	ND	ug/kg	4.7	1		01/11/10 07:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 07:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 07:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 07:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 07:05	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		01/11/10 07:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		01/11/10 07:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		01/11/10 07:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:05	108-67-8	
Vinyl acetate	ND	ug/kg	47.4	1		01/11/10 07:05	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		01/11/10 07:05	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		01/11/10 07:05	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		01/11/10 07:05	1330-20-7	
o-Xylene	ND	ug/kg	4.7	1		01/11/10 07:05	95-47-6	
Dibromofluoromethane (S)	100 %		79-116	1		01/11/10 07:05	1868-53-7	
Toluene-d8 (S)	102 %		88-110	1		01/11/10 07:05	2037-26-5	
4-Bromofluorobenzene (S)	101 %		74-115	1		01/11/10 07:05	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		69-121	1		01/11/10 07:05	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	19.7 %	0.10	1	01/08/10 17:43
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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-4 **Lab ID:** 9260831004 **Collected:** 01/06/10 10:05 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.3	1	01/11/10 00:00	01/12/10 19:09	68334-30-5	
n-Pentacosane (S)	69 %		50-135	1	01/11/10 00:00	01/12/10 19:09	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.5	1	01/12/10 13:04	01/12/10 23:36	8006-61-9	
4-Bromofluorobenzene (S)	112 %		50-135	1	01/12/10 13:04	01/12/10 23:36	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		9.3	1	01/12/10 16:21	01/13/10 05:21		
Aliphatic (C09-C12)	ND mg/kg		9.3	1	01/12/10 16:21	01/13/10 05:21		
Aromatic (C09-C10)	ND mg/kg		9.3	1	01/12/10 16:21	01/13/10 05:21		
2,5-Dibromotoluene (PID)(S)	100 %		70-130	1	01/12/10 16:21	01/13/10 05:21		
2,5-Dibromotoluene (FID)(S)	121 %		70-130	1	01/12/10 16:21	01/13/10 05:21		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		92.2	1		01/11/10 07:23	67-64-1	
Benzene	ND ug/kg		4.6	1		01/11/10 07:23	71-43-2	
Bromobenzene	ND ug/kg		4.6	1		01/11/10 07:23	108-86-1	
Bromochloromethane	ND ug/kg		4.6	1		01/11/10 07:23	74-97-5	
Bromodichloromethane	ND ug/kg		4.6	1		01/11/10 07:23	75-27-4	
Bromoform	ND ug/kg		4.6	1		01/11/10 07:23	75-25-2	
Bromomethane	ND ug/kg		9.2	1		01/11/10 07:23	74-83-9	
2-Butanone (MEK)	ND ug/kg		92.2	1		01/11/10 07:23	78-93-3	
n-Butylbenzene	ND ug/kg		4.6	1		01/11/10 07:23	104-51-8	
sec-Butylbenzene	ND ug/kg		4.6	1		01/11/10 07:23	135-98-8	
tert-Butylbenzene	ND ug/kg		4.6	1		01/11/10 07:23	98-06-6	
Carbon tetrachloride	ND ug/kg		4.6	1		01/11/10 07:23	56-23-5	
Chlorobenzene	ND ug/kg		4.6	1		01/11/10 07:23	108-90-7	
Chloroethane	ND ug/kg		9.2	1		01/11/10 07:23	75-00-3	
Chloroform	ND ug/kg		4.6	1		01/11/10 07:23	67-66-3	
Chloromethane	ND ug/kg		9.2	1		01/11/10 07:23	74-87-3	
2-Chlorotoluene	ND ug/kg		4.6	1		01/11/10 07:23	95-49-8	
4-Chlorotoluene	ND ug/kg		4.6	1		01/11/10 07:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.6	1		01/11/10 07:23	96-12-8	
Dibromochloromethane	ND ug/kg		4.6	1		01/11/10 07:23	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.6	1		01/11/10 07:23	106-93-4	
Dibromomethane	ND ug/kg		4.6	1		01/11/10 07:23	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.6	1		01/11/10 07:23	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.6	1		01/11/10 07:23	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.6	1		01/11/10 07:23	106-46-7	
Dichlorodifluoromethane	ND ug/kg		9.2	1		01/11/10 07:23	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.6	1		01/11/10 07:23	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.6	1		01/11/10 07:23	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.6	1		01/11/10 07:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.6	1		01/11/10 07:23	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-2989-4 Lab ID: 9260831004 Collected: 01/06/10 10:05 Received: 01/07/10 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		01/11/10 07:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		01/11/10 07:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		01/11/10 07:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		01/11/10 07:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		01/11/10 07:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		01/11/10 07:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		01/11/10 07:23	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		01/11/10 07:23	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		01/11/10 07:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		01/11/10 07:23	87-68-3	
2-Hexanone	ND	ug/kg	46.1	1		01/11/10 07:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		01/11/10 07:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		01/11/10 07:23	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		01/11/10 07:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.1	1		01/11/10 07:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		01/11/10 07:23	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		01/11/10 07:23	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		01/11/10 07:23	103-65-1	
Styrene	ND	ug/kg	4.6	1		01/11/10 07:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		01/11/10 07:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		01/11/10 07:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		01/11/10 07:23	127-18-4	
Toluene	ND	ug/kg	4.6	1		01/11/10 07:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		01/11/10 07:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		01/11/10 07:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		01/11/10 07:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		01/11/10 07:23	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		01/11/10 07:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		01/11/10 07:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		01/11/10 07:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		01/11/10 07:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		01/11/10 07:23	108-67-8	
Vinyl acetate	ND	ug/kg	46.1	1		01/11/10 07:23	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		01/11/10 07:23	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		01/11/10 07:23	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		01/11/10 07:23	1330-20-7	
o-Xylene	ND	ug/kg	4.6	1		01/11/10 07:23	95-47-6	
Dibromofluoromethane (S)	98 %		79-116	1		01/11/10 07:23	1868-53-7	
Toluene-d8 (S)	103 %		88-110	1		01/11/10 07:23	2037-26-5	
4-Bromofluorobenzene (S)	97 %		74-115	1		01/11/10 07:23	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		69-121	1		01/11/10 07:23	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 20.9 % 0.10 1 01/08/10 17:43

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-B-7.5 **Lab ID:** 9260831005 **Collected:** 01/06/10 10:50 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		5.7	1	01/11/10 00:00	01/13/10 22:01	68334-30-5	
n-Pentacosane (S)	95 %		50-135	1	01/11/10 00:00	01/13/10 22:01	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.6	1	01/12/10 13:04	01/13/10 00:01	8006-61-9	
4-Bromofluorobenzene (S)	111 %		50-135	1	01/12/10 13:04	01/13/10 00:01	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		9.7	1	01/12/10 16:21	01/13/10 05:46		
Aliphatic (C09-C12)	ND mg/kg		9.7	1	01/12/10 16:21	01/13/10 05:46		
Aromatic (C09-C10)	ND mg/kg		9.7	1	01/12/10 16:21	01/13/10 05:46		
2,5-Dibromotoluene (PID)(S)	98 %		70-130	1	01/12/10 16:21	01/13/10 05:46		
2,5-Dibromotoluene (FID)(S)	119 %		70-130	1	01/12/10 16:21	01/13/10 05:46		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		93.5	1		01/11/10 07:41	67-64-1	
Benzene	ND ug/kg		4.7	1		01/11/10 07:41	71-43-2	
Bromobenzene	ND ug/kg		4.7	1		01/11/10 07:41	108-86-1	
Bromochloromethane	ND ug/kg		4.7	1		01/11/10 07:41	74-97-5	
Bromodichloromethane	ND ug/kg		4.7	1		01/11/10 07:41	75-27-4	
Bromoform	ND ug/kg		4.7	1		01/11/10 07:41	75-25-2	
Bromomethane	ND ug/kg		9.4	1		01/11/10 07:41	74-83-9	
2-Butanone (MEK)	ND ug/kg		93.5	1		01/11/10 07:41	78-93-3	
n-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:41	104-51-8	
sec-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:41	135-98-8	
tert-Butylbenzene	ND ug/kg		4.7	1		01/11/10 07:41	98-06-6	
Carbon tetrachloride	ND ug/kg		4.7	1		01/11/10 07:41	56-23-5	
Chlorobenzene	ND ug/kg		4.7	1		01/11/10 07:41	108-90-7	
Chloroethane	ND ug/kg		9.4	1		01/11/10 07:41	75-00-3	
Chloroform	ND ug/kg		4.7	1		01/11/10 07:41	67-66-3	
Chloromethane	ND ug/kg		9.4	1		01/11/10 07:41	74-87-3	
2-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 07:41	95-49-8	
4-Chlorotoluene	ND ug/kg		4.7	1		01/11/10 07:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.7	1		01/11/10 07:41	96-12-8	
Dibromochloromethane	ND ug/kg		4.7	1		01/11/10 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.7	1		01/11/10 07:41	106-93-4	
Dibromomethane	ND ug/kg		4.7	1		01/11/10 07:41	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:41	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:41	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.7	1		01/11/10 07:41	106-46-7	
Dichlorodifluoromethane	ND ug/kg		9.4	1		01/11/10 07:41	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.7	1		01/11/10 07:41	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.7	1		01/11/10 07:41	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.7	1		01/11/10 07:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.7	1		01/11/10 07:41	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-2989-B-7.5 **Lab ID:** 9260831005 **Collected:** 01/06/10 10:50 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		01/11/10 07:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		01/11/10 07:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		01/11/10 07:41	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		01/11/10 07:41	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		01/11/10 07:41	87-68-3	
2-Hexanone	ND	ug/kg	46.8	1		01/11/10 07:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		01/11/10 07:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		01/11/10 07:41	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		01/11/10 07:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.8	1		01/11/10 07:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		01/11/10 07:41	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		01/11/10 07:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		01/11/10 07:41	103-65-1	
Styrene	ND	ug/kg	4.7	1		01/11/10 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		01/11/10 07:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		01/11/10 07:41	127-18-4	
Toluene	ND	ug/kg	4.7	1		01/11/10 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		01/11/10 07:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 07:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		01/11/10 07:41	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		01/11/10 07:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		01/11/10 07:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		01/11/10 07:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		01/11/10 07:41	108-67-8	
Vinyl acetate	ND	ug/kg	46.8	1		01/11/10 07:41	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		01/11/10 07:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		01/11/10 07:41	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		01/11/10 07:41	1330-20-7	
o-Xylene	ND	ug/kg	4.7	1		01/11/10 07:41	95-47-6	
Dibromofluoromethane (S)	99 %		79-116	1		01/11/10 07:41	1868-53-7	
Toluene-d8 (S)	102 %		88-110	1		01/11/10 07:41	2037-26-5	
4-Bromofluorobenzene (S)	98 %		74-115	1		01/11/10 07:41	460-00-4	
1,2-Dichloroethane-d4 (S)	91 %		69-121	1		01/11/10 07:41	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 12.2 % 0.10 1 01/08/10 17:43

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-2 **Lab ID:** 9260831006 **Collected:** 01/05/10 14:45 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		5.9	1	01/11/10 00:00	01/12/10 19:38	68334-30-5	
n-Pentacosane (S)	74 %		50-135	1	01/11/10 00:00	01/12/10 19:38	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	6.0 mg/kg		5.1	1	01/12/10 17:21	01/13/10 01:40	8006-61-9	
4-Bromofluorobenzene (S)	109 %		50-135	1	01/12/10 17:21	01/13/10 01:40	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		8.4	1	01/12/10 16:21	01/13/10 06:11		
Aliphatic (C09-C12)	ND mg/kg		8.4	1	01/12/10 16:21	01/13/10 06:11		
Aromatic (C09-C10)	ND mg/kg		8.4	1	01/12/10 16:21	01/13/10 06:11		
2,5-Dibromotoluene (PID)(S)	97 %		70-130	1	01/12/10 16:21	01/13/10 06:11		
2,5-Dibromotoluene (FID)(S)	126 %		70-130	1	01/12/10 16:21	01/13/10 06:11		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		82.9	1		01/08/10 14:00	67-64-1	
Benzene	ND ug/kg		4.1	1		01/08/10 14:00	71-43-2	
Bromobenzene	ND ug/kg		4.1	1		01/08/10 14:00	108-86-1	
Bromochloromethane	ND ug/kg		4.1	1		01/08/10 14:00	74-97-5	
Bromodichloromethane	ND ug/kg		4.1	1		01/08/10 14:00	75-27-4	
Bromoform	ND ug/kg		4.1	1		01/08/10 14:00	75-25-2	
Bromomethane	ND ug/kg		8.3	1		01/08/10 14:00	74-83-9	
2-Butanone (MEK)	ND ug/kg		82.9	1		01/08/10 14:00	78-93-3	
n-Butylbenzene	ND ug/kg		4.1	1		01/08/10 14:00	104-51-8	
sec-Butylbenzene	ND ug/kg		4.1	1		01/08/10 14:00	135-98-8	
tert-Butylbenzene	ND ug/kg		4.1	1		01/08/10 14:00	98-06-6	
Carbon tetrachloride	ND ug/kg		4.1	1		01/08/10 14:00	56-23-5	
Chlorobenzene	ND ug/kg		4.1	1		01/08/10 14:00	108-90-7	
Chloroethane	ND ug/kg		8.3	1		01/08/10 14:00	75-00-3	
Chloroform	ND ug/kg		4.1	1		01/08/10 14:00	67-66-3	
Chloromethane	ND ug/kg		8.3	1		01/08/10 14:00	74-87-3	
2-Chlorotoluene	ND ug/kg		4.1	1		01/08/10 14:00	95-49-8	
4-Chlorotoluene	ND ug/kg		4.1	1		01/08/10 14:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.1	1		01/08/10 14:00	96-12-8	
Dibromochloromethane	ND ug/kg		4.1	1		01/08/10 14:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.1	1		01/08/10 14:00	106-93-4	
Dibromomethane	ND ug/kg		4.1	1		01/08/10 14:00	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.1	1		01/08/10 14:00	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.1	1		01/08/10 14:00	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.1	1		01/08/10 14:00	106-46-7	
Dichlorodifluoromethane	ND ug/kg		8.3	1		01/08/10 14:00	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.1	1		01/08/10 14:00	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.1	1		01/08/10 14:00	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.1	1		01/08/10 14:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.1	1		01/08/10 14:00	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-2 **Lab ID:** 9260831006 **Collected:** 01/05/10 14:45 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		01/08/10 14:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		01/08/10 14:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		01/08/10 14:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		01/08/10 14:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		01/08/10 14:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		01/08/10 14:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		01/08/10 14:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		01/08/10 14:00	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		01/08/10 14:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		01/08/10 14:00	87-68-3	
2-Hexanone	ND	ug/kg	41.4	1		01/08/10 14:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		01/08/10 14:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		01/08/10 14:00	99-87-6	
Methylene Chloride	ND	ug/kg	16.6	1		01/08/10 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.4	1		01/08/10 14:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		01/08/10 14:00	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		01/08/10 14:00	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		01/08/10 14:00	103-65-1	
Styrene	ND	ug/kg	4.1	1		01/08/10 14:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		01/08/10 14:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		01/08/10 14:00	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		01/08/10 14:00	127-18-4	
Toluene	ND	ug/kg	4.1	1		01/08/10 14:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		01/08/10 14:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		01/08/10 14:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		01/08/10 14:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		01/08/10 14:00	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		01/08/10 14:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		01/08/10 14:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		01/08/10 14:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		01/08/10 14:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		01/08/10 14:00	108-67-8	
Vinyl acetate	ND	ug/kg	41.4	1		01/08/10 14:00	108-05-4	
Vinyl chloride	ND	ug/kg	8.3	1		01/08/10 14:00	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		01/08/10 14:00	1330-20-7	
m&p-Xylene	ND	ug/kg	8.3	1		01/08/10 14:00	1330-20-7	
o-Xylene	ND	ug/kg	4.1	1		01/08/10 14:00	95-47-6	
Dibromofluoromethane (S)	97 %		79-116	1		01/08/10 14:00	1868-53-7	
Toluene-d8 (S)	101 %		88-110	1		01/08/10 14:00	2037-26-5	
4-Bromofluorobenzene (S)	100 %		74-115	1		01/08/10 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		69-121	1		01/08/10 14:00	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.6 %	0.10	1	01/08/10 17:43
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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-3 **Lab ID:** 9260831007 **Collected:** 01/05/10 09:30 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8015 GCS THC-Diesel

Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546

Diesel Components	ND mg/kg		5.9	1	01/11/10 00:00	01/13/10 22:30	68334-30-5	
n-Pentacosane (S)	77 %		50-135	1	01/11/10 00:00	01/13/10 22:30	629-99-2	

Gasoline Range Organics

Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND mg/kg		4.7	1	01/12/10 17:21	01/13/10 02:30	8006-61-9	
4-Bromofluorobenzene (S)	105 %		50-135	1	01/12/10 17:21	01/13/10 02:30	460-00-4	

VPH NC Soil

Analytical Method: MADEP VPH Preparation Method: MADEP VPH

Aliphatic (C05-C08)	ND mg/kg		8.2	1	01/12/10 16:21	01/13/10 06:36		
Aliphatic (C09-C12)	ND mg/kg		8.2	1	01/12/10 16:21	01/13/10 06:36		
Aromatic (C09-C10)	ND mg/kg		8.2	1	01/12/10 16:21	01/13/10 06:36		
2,5-Dibromotoluene (PID)(S)	99 %		70-130	1	01/12/10 16:21	01/13/10 06:36		
2,5-Dibromotoluene (FID)(S)	117 %		70-130	1	01/12/10 16:21	01/13/10 06:36		

8260/5035A Volatile Organics

Analytical Method: EPA 8260

Acetone	ND ug/kg		109	1		01/08/10 14:18	67-64-1	
Benzene	ND ug/kg		5.4	1		01/08/10 14:18	71-43-2	
Bromobenzene	ND ug/kg		5.4	1		01/08/10 14:18	108-86-1	
Bromochloromethane	ND ug/kg		5.4	1		01/08/10 14:18	74-97-5	
Bromodichloromethane	ND ug/kg		5.4	1		01/08/10 14:18	75-27-4	
Bromoform	ND ug/kg		5.4	1		01/08/10 14:18	75-25-2	
Bromomethane	ND ug/kg		10.9	1		01/08/10 14:18	74-83-9	
2-Butanone (MEK)	ND ug/kg		109	1		01/08/10 14:18	78-93-3	
n-Butylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	104-51-8	
sec-Butylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	135-98-8	
tert-Butylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	98-06-6	
Carbon tetrachloride	ND ug/kg		5.4	1		01/08/10 14:18	56-23-5	
Chlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	108-90-7	
Chloroethane	ND ug/kg		10.9	1		01/08/10 14:18	75-00-3	
Chloroform	ND ug/kg		5.4	1		01/08/10 14:18	67-66-3	
Chloromethane	ND ug/kg		10.9	1		01/08/10 14:18	74-87-3	
2-Chlorotoluene	ND ug/kg		5.4	1		01/08/10 14:18	95-49-8	
4-Chlorotoluene	ND ug/kg		5.4	1		01/08/10 14:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		5.4	1		01/08/10 14:18	96-12-8	
Dibromochloromethane	ND ug/kg		5.4	1		01/08/10 14:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		5.4	1		01/08/10 14:18	106-93-4	
Dibromomethane	ND ug/kg		5.4	1		01/08/10 14:18	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	106-46-7	
Dichlorodifluoromethane	ND ug/kg		10.9	1		01/08/10 14:18	75-71-8	
1,1-Dichloroethane	ND ug/kg		5.4	1		01/08/10 14:18	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.4	1		01/08/10 14:18	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.4	1		01/08/10 14:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.4	1		01/08/10 14:18	156-59-2	

Date: 01/14/2010 03:42 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-3 **Lab ID:** 9260831007 **Collected:** 01/05/10 09:30 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND ug/kg		5.4	1		01/08/10 14:18	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.4	1		01/08/10 14:18	78-87-5	
1,3-Dichloropropane	ND ug/kg		5.4	1		01/08/10 14:18	142-28-9	
2,2-Dichloropropane	ND ug/kg		5.4	1		01/08/10 14:18	594-20-7	
1,1-Dichloropropene	ND ug/kg		5.4	1		01/08/10 14:18	563-58-6	
cis-1,3-Dichloropropene	ND ug/kg		5.4	1		01/08/10 14:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.4	1		01/08/10 14:18	10061-02-6	
Diisopropyl ether	ND ug/kg		5.4	1		01/08/10 14:18	108-20-3	
Ethylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	100-41-4	
Hexachloro-1,3-butadiene	ND ug/kg		5.4	1		01/08/10 14:18	87-68-3	
2-Hexanone	ND ug/kg		54.5	1		01/08/10 14:18	591-78-6	
Isopropylbenzene (Cumene)	ND ug/kg		5.4	1		01/08/10 14:18	98-82-8	
p-Isopropyltoluene	ND ug/kg		5.4	1		01/08/10 14:18	99-87-6	
Methylene Chloride	ND ug/kg		21.8	1		01/08/10 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		54.5	1		01/08/10 14:18	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		5.4	1		01/08/10 14:18	1634-04-4	
Naphthalene	ND ug/kg		5.4	1		01/08/10 14:18	91-20-3	
n-Propylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	103-65-1	
Styrene	ND ug/kg		5.4	1		01/08/10 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		5.4	1		01/08/10 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		5.4	1		01/08/10 14:18	79-34-5	
Tetrachloroethene	ND ug/kg		5.4	1		01/08/10 14:18	127-18-4	
Toluene	ND ug/kg		5.4	1		01/08/10 14:18	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		5.4	1		01/08/10 14:18	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		5.4	1		01/08/10 14:18	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		5.4	1		01/08/10 14:18	79-00-5	
Trichloroethene	ND ug/kg		5.4	1		01/08/10 14:18	79-01-6	
Trichlorofluoromethane	ND ug/kg		5.4	1		01/08/10 14:18	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		5.4	1		01/08/10 14:18	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		5.4	1		01/08/10 14:18	108-67-8	
Vinyl acetate	ND ug/kg		54.5	1		01/08/10 14:18	108-05-4	
Vinyl chloride	ND ug/kg		10.9	1		01/08/10 14:18	75-01-4	
Xylene (Total)	ND ug/kg		10.9	1		01/08/10 14:18	1330-20-7	
m&p-Xylene	ND ug/kg		10.9	1		01/08/10 14:18	1330-20-7	
o-Xylene	ND ug/kg		5.4	1		01/08/10 14:18	95-47-6	
Dibromofluoromethane (S)	120 %		79-116	1		01/08/10 14:18	1868-53-7	S3
Toluene-d8 (S)	102 %		88-110	1		01/08/10 14:18	2037-26-5	
4-Bromofluorobenzene (S)	100 %		74-115	1		01/08/10 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		69-121	1		01/08/10 14:18	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	14.9 %	0.10	1	01/08/10 17:44
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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-3019-4 **Lab ID:** 9260831008 **Collected:** 01/05/10 09:00 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.1	1	01/11/10 00:00	01/12/10 20:06	68334-30-5	
n-Pentacosane (S)	83 %		50-135	1	01/11/10 00:00	01/12/10 20:06	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.7	1	01/12/10 17:21	01/13/10 03:20	8006-61-9	
4-Bromofluorobenzene (S)	125 %		50-135	1	01/12/10 17:21	01/13/10 03:20	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		8.9	1	01/12/10 16:21	01/13/10 07:01		
Aliphatic (C09-C12)	ND mg/kg		8.9	1	01/12/10 16:21	01/13/10 07:01		
Aromatic (C09-C10)	ND mg/kg		8.9	1	01/12/10 16:21	01/13/10 07:01		
2,5-Dibromotoluene (PID)(S)	99 %		70-130	1	01/12/10 16:21	01/13/10 07:01		
2,5-Dibromotoluene (FID)(S)	123 %		70-130	1	01/12/10 16:21	01/13/10 07:01		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		85.2	1		01/08/10 14:36	67-64-1	
Benzene	ND ug/kg		4.3	1		01/08/10 14:36	71-43-2	
Bromobenzene	ND ug/kg		4.3	1		01/08/10 14:36	108-86-1	
Bromochloromethane	ND ug/kg		4.3	1		01/08/10 14:36	74-97-5	
Bromodichloromethane	ND ug/kg		4.3	1		01/08/10 14:36	75-27-4	
Bromoform	ND ug/kg		4.3	1		01/08/10 14:36	75-25-2	
Bromomethane	ND ug/kg		8.5	1		01/08/10 14:36	74-83-9	
2-Butanone (MEK)	ND ug/kg		85.2	1		01/08/10 14:36	78-93-3	
n-Butylbenzene	ND ug/kg		4.3	1		01/08/10 14:36	104-51-8	
sec-Butylbenzene	ND ug/kg		4.3	1		01/08/10 14:36	135-98-8	
tert-Butylbenzene	ND ug/kg		4.3	1		01/08/10 14:36	98-06-6	
Carbon tetrachloride	ND ug/kg		4.3	1		01/08/10 14:36	56-23-5	
Chlorobenzene	ND ug/kg		4.3	1		01/08/10 14:36	108-90-7	
Chloroethane	ND ug/kg		8.5	1		01/08/10 14:36	75-00-3	
Chloroform	ND ug/kg		4.3	1		01/08/10 14:36	67-66-3	
Chloromethane	ND ug/kg		8.5	1		01/08/10 14:36	74-87-3	
2-Chlorotoluene	ND ug/kg		4.3	1		01/08/10 14:36	95-49-8	
4-Chlorotoluene	ND ug/kg		4.3	1		01/08/10 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.3	1		01/08/10 14:36	96-12-8	
Dibromochloromethane	ND ug/kg		4.3	1		01/08/10 14:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.3	1		01/08/10 14:36	106-93-4	
Dibromomethane	ND ug/kg		4.3	1		01/08/10 14:36	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.3	1		01/08/10 14:36	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.3	1		01/08/10 14:36	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.3	1		01/08/10 14:36	106-46-7	
Dichlorodifluoromethane	ND ug/kg		8.5	1		01/08/10 14:36	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.3	1		01/08/10 14:36	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.3	1		01/08/10 14:36	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.3	1		01/08/10 14:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.3	1		01/08/10 14:36	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-4 Lab ID: 9260831008 Collected: 01/05/10 09:00 Received: 01/07/10 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		01/08/10 14:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		01/08/10 14:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		01/08/10 14:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		01/08/10 14:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		01/08/10 14:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		01/08/10 14:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		01/08/10 14:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		01/08/10 14:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		01/08/10 14:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		01/08/10 14:36	87-68-3	
2-Hexanone	ND	ug/kg	42.6	1		01/08/10 14:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		01/08/10 14:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		01/08/10 14:36	99-87-6	
Methylene Chloride	ND	ug/kg	17.0	1		01/08/10 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.6	1		01/08/10 14:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		01/08/10 14:36	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		01/08/10 14:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		01/08/10 14:36	103-65-1	
Styrene	ND	ug/kg	4.3	1		01/08/10 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		01/08/10 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		01/08/10 14:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		01/08/10 14:36	127-18-4	
Toluene	ND	ug/kg	4.3	1		01/08/10 14:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		01/08/10 14:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		01/08/10 14:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		01/08/10 14:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		01/08/10 14:36	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		01/08/10 14:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		01/08/10 14:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		01/08/10 14:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		01/08/10 14:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		01/08/10 14:36	108-67-8	
Vinyl acetate	ND	ug/kg	42.6	1		01/08/10 14:36	108-05-4	
Vinyl chloride	ND	ug/kg	8.5	1		01/08/10 14:36	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	1		01/08/10 14:36	1330-20-7	
m&p-Xylene	ND	ug/kg	8.5	1		01/08/10 14:36	1330-20-7	
o-Xylene	ND	ug/kg	4.3	1		01/08/10 14:36	95-47-6	
Dibromofluoromethane (S)	117 %		79-116	1		01/08/10 14:36	1868-53-7	S3
Toluene-d8 (S)	101 %		88-110	1		01/08/10 14:36	2037-26-5	
4-Bromofluorobenzene (S)	99 %		74-115	1		01/08/10 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		69-121	1		01/08/10 14:36	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 18.1 % 0.10 1 01/08/10 17:44

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-B-10 **Lab ID:** 9260831009 **Collected:** 01/05/10 12:45 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.1	1	01/11/10 00:00	01/13/10 22:59	68334-30-5	
n-Pentacosane (S)	81 %		50-135	1	01/11/10 00:00	01/13/10 22:59	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		9.6	1	01/12/10 17:21	01/13/10 03:44	8006-61-9	
4-Bromofluorobenzene (S)	110 %		50-135	1	01/12/10 17:21	01/13/10 03:44	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		13.1	1	01/12/10 16:21	01/13/10 07:26		
Aliphatic (C09-C12)	ND mg/kg		13.1	1	01/12/10 16:21	01/13/10 07:26		
Aromatic (C09-C10)	ND mg/kg		13.1	1	01/12/10 16:21	01/13/10 07:26		
2,5-Dibromotoluene (PID)(S)	98 %		70-130	1	01/12/10 16:21	01/13/10 07:26		
2,5-Dibromotoluene (FID)(S)	114 %		70-130	1	01/12/10 16:21	01/13/10 07:26		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		80.3	1		01/08/10 14:54	67-64-1	
Benzene	ND ug/kg		4.0	1		01/08/10 14:54	71-43-2	
Bromobenzene	ND ug/kg		4.0	1		01/08/10 14:54	108-86-1	
Bromochloromethane	ND ug/kg		4.0	1		01/08/10 14:54	74-97-5	
Bromodichloromethane	ND ug/kg		4.0	1		01/08/10 14:54	75-27-4	
Bromoform	ND ug/kg		4.0	1		01/08/10 14:54	75-25-2	
Bromomethane	ND ug/kg		8.0	1		01/08/10 14:54	74-83-9	
2-Butanone (MEK)	ND ug/kg		80.3	1		01/08/10 14:54	78-93-3	
n-Butylbenzene	ND ug/kg		4.0	1		01/08/10 14:54	104-51-8	
sec-Butylbenzene	ND ug/kg		4.0	1		01/08/10 14:54	135-98-8	
tert-Butylbenzene	ND ug/kg		4.0	1		01/08/10 14:54	98-06-6	
Carbon tetrachloride	ND ug/kg		4.0	1		01/08/10 14:54	56-23-5	
Chlorobenzene	ND ug/kg		4.0	1		01/08/10 14:54	108-90-7	
Chloroethane	ND ug/kg		8.0	1		01/08/10 14:54	75-00-3	
Chloroform	ND ug/kg		4.0	1		01/08/10 14:54	67-66-3	
Chloromethane	ND ug/kg		8.0	1		01/08/10 14:54	74-87-3	
2-Chlorotoluene	ND ug/kg		4.0	1		01/08/10 14:54	95-49-8	
4-Chlorotoluene	ND ug/kg		4.0	1		01/08/10 14:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		4.0	1		01/08/10 14:54	96-12-8	
Dibromochloromethane	ND ug/kg		4.0	1		01/08/10 14:54	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		4.0	1		01/08/10 14:54	106-93-4	
Dibromomethane	ND ug/kg		4.0	1		01/08/10 14:54	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		4.0	1		01/08/10 14:54	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.0	1		01/08/10 14:54	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.0	1		01/08/10 14:54	106-46-7	
Dichlorodifluoromethane	ND ug/kg		8.0	1		01/08/10 14:54	75-71-8	
1,1-Dichloroethane	ND ug/kg		4.0	1		01/08/10 14:54	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.0	1		01/08/10 14:54	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.0	1		01/08/10 14:54	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.0	1		01/08/10 14:54	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-B-10 Lab ID: 9260831009 Collected: 01/05/10 12:45 Received: 01/07/10 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		01/08/10 14:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		01/08/10 14:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		01/08/10 14:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		01/08/10 14:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		01/08/10 14:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		01/08/10 14:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		01/08/10 14:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		01/08/10 14:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		01/08/10 14:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		01/08/10 14:54	87-68-3	
2-Hexanone	ND	ug/kg	40.1	1		01/08/10 14:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		01/08/10 14:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		01/08/10 14:54	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		01/08/10 14:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.1	1		01/08/10 14:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		01/08/10 14:54	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		01/08/10 14:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		01/08/10 14:54	103-65-1	
Styrene	ND	ug/kg	4.0	1		01/08/10 14:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		01/08/10 14:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		01/08/10 14:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		01/08/10 14:54	127-18-4	
Toluene	ND	ug/kg	4.0	1		01/08/10 14:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		01/08/10 14:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		01/08/10 14:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		01/08/10 14:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		01/08/10 14:54	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		01/08/10 14:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		01/08/10 14:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		01/08/10 14:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		01/08/10 14:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		01/08/10 14:54	108-67-8	
Vinyl acetate	ND	ug/kg	40.1	1		01/08/10 14:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		01/08/10 14:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		01/08/10 14:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		01/08/10 14:54	1330-20-7	
o-Xylene	ND	ug/kg	4.0	1		01/08/10 14:54	95-47-6	
Dibromofluoromethane (S)	99 %		79-116	1		01/08/10 14:54	1868-53-7	
Toluene-d8 (S)	101 %		88-110	1		01/08/10 14:54	2037-26-5	
4-Bromofluorobenzene (S)	98 %		74-115	1		01/08/10 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		69-121	1		01/08/10 14:54	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	17.7 %	0.10	1	01/09/10 11:39
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ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

Sample: TT-3019-1 **Lab ID:** 9260831010 **Collected:** 01/05/10 08:45 **Received:** 01/07/10 09:30 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND mg/kg		6.3	1	01/11/10 00:00	01/12/10 20:35	68334-30-5	
n-Pentacosane (S)	78 %		50-135	1	01/11/10 00:00	01/12/10 20:35	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		9.8	1	01/12/10 17:21	01/13/10 04:09	8006-61-9	
4-Bromofluorobenzene (S)	128 %		50-135	1	01/12/10 17:21	01/13/10 04:09	460-00-4	
VPH NC Soil								
Analytical Method: MADEP VPH Preparation Method: MADEP VPH								
Aliphatic (C05-C08)	ND mg/kg		9.2	1	01/12/10 16:21	01/13/10 07:50		
Aliphatic (C09-C12)	ND mg/kg		9.2	1	01/12/10 16:21	01/13/10 07:50		
Aromatic (C09-C10)	ND mg/kg		9.2	1	01/12/10 16:21	01/13/10 07:50		
2,5-Dibromotoluene (PID)(S)	95 %		70-130	1	01/12/10 16:21	01/13/10 07:50		
2,5-Dibromotoluene (FID)(S)	111 %		70-130	1	01/12/10 16:21	01/13/10 07:50		
8260/5035A Volatile Organics								
Analytical Method: EPA 8260								
Acetone	ND ug/kg		129	1		01/08/10 15:12	67-64-1	
Benzene	ND ug/kg		6.5	1		01/08/10 15:12	71-43-2	
Bromobenzene	ND ug/kg		6.5	1		01/08/10 15:12	108-86-1	
Bromochloromethane	ND ug/kg		6.5	1		01/08/10 15:12	74-97-5	
Bromodichloromethane	ND ug/kg		6.5	1		01/08/10 15:12	75-27-4	
Bromoform	ND ug/kg		6.5	1		01/08/10 15:12	75-25-2	
Bromomethane	ND ug/kg		12.9	1		01/08/10 15:12	74-83-9	
2-Butanone (MEK)	ND ug/kg		129	1		01/08/10 15:12	78-93-3	
n-Butylbenzene	ND ug/kg		6.5	1		01/08/10 15:12	104-51-8	
sec-Butylbenzene	ND ug/kg		6.5	1		01/08/10 15:12	135-98-8	
tert-Butylbenzene	ND ug/kg		6.5	1		01/08/10 15:12	98-06-6	
Carbon tetrachloride	ND ug/kg		6.5	1		01/08/10 15:12	56-23-5	
Chlorobenzene	ND ug/kg		6.5	1		01/08/10 15:12	108-90-7	
Chloroethane	ND ug/kg		12.9	1		01/08/10 15:12	75-00-3	
Chloroform	ND ug/kg		6.5	1		01/08/10 15:12	67-66-3	
Chloromethane	ND ug/kg		12.9	1		01/08/10 15:12	74-87-3	
2-Chlorotoluene	ND ug/kg		6.5	1		01/08/10 15:12	95-49-8	
4-Chlorotoluene	ND ug/kg		6.5	1		01/08/10 15:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/kg		6.5	1		01/08/10 15:12	96-12-8	
Dibromochloromethane	ND ug/kg		6.5	1		01/08/10 15:12	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		6.5	1		01/08/10 15:12	106-93-4	
Dibromomethane	ND ug/kg		6.5	1		01/08/10 15:12	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		6.5	1		01/08/10 15:12	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		6.5	1		01/08/10 15:12	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		6.5	1		01/08/10 15:12	106-46-7	
Dichlorodifluoromethane	ND ug/kg		12.9	1		01/08/10 15:12	75-71-8	
1,1-Dichloroethane	ND ug/kg		6.5	1		01/08/10 15:12	75-34-3	
1,2-Dichloroethane	ND ug/kg		6.5	1		01/08/10 15:12	107-06-2	
1,1-Dichloroethene	ND ug/kg		6.5	1		01/08/10 15:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		6.5	1		01/08/10 15:12	156-59-2	

Date: 01/14/2010 03:42 PM

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ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9260831

Sample: TT-3019-1 Lab ID: 9260831010 Collected: 01/05/10 08:45 Received: 01/07/10 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND	ug/kg	6.5	1		01/08/10 15:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.5	1		01/08/10 15:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.5	1		01/08/10 15:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.5	1		01/08/10 15:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.5	1		01/08/10 15:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.5	1		01/08/10 15:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.5	1		01/08/10 15:12	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.5	1		01/08/10 15:12	108-20-3	
Ethylbenzene	ND	ug/kg	6.5	1		01/08/10 15:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.5	1		01/08/10 15:12	87-68-3	
2-Hexanone	ND	ug/kg	64.6	1		01/08/10 15:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.5	1		01/08/10 15:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.5	1		01/08/10 15:12	99-87-6	
Methylene Chloride	ND	ug/kg	25.8	1		01/08/10 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	64.6	1		01/08/10 15:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.5	1		01/08/10 15:12	1634-04-4	
Naphthalene	ND	ug/kg	6.5	1		01/08/10 15:12	91-20-3	
n-Propylbenzene	ND	ug/kg	6.5	1		01/08/10 15:12	103-65-1	
Styrene	ND	ug/kg	6.5	1		01/08/10 15:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.5	1		01/08/10 15:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	1		01/08/10 15:12	79-34-5	
Tetrachloroethene	ND	ug/kg	6.5	1		01/08/10 15:12	127-18-4	
Toluene	ND	ug/kg	6.5	1		01/08/10 15:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.5	1		01/08/10 15:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.5	1		01/08/10 15:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.5	1		01/08/10 15:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.5	1		01/08/10 15:12	79-00-5	
Trichloroethene	ND	ug/kg	6.5	1		01/08/10 15:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.5	1		01/08/10 15:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.5	1		01/08/10 15:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.5	1		01/08/10 15:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.5	1		01/08/10 15:12	108-67-8	
Vinyl acetate	ND	ug/kg	64.6	1		01/08/10 15:12	108-05-4	
Vinyl chloride	ND	ug/kg	12.9	1		01/08/10 15:12	75-01-4	
Xylene (Total)	ND	ug/kg	12.9	1		01/08/10 15:12	1330-20-7	
m&p-Xylene	ND	ug/kg	12.9	1		01/08/10 15:12	1330-20-7	
o-Xylene	ND	ug/kg	6.5	1		01/08/10 15:12	95-47-6	
Dibromofluoromethane (S)	99 %		79-116	1		01/08/10 15:12	1868-53-7	
Toluene-d8 (S)	101 %		88-110	1		01/08/10 15:12	2037-26-5	
4-Bromofluorobenzene (S)	101 %		74-115	1		01/08/10 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		69-121	1		01/08/10 15:12	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 20.2 % 0.10 1 01/09/10 11:39

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

QC Batch: OEXT/9015 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005, 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

METHOD BLANK: 388937 Matrix: Solid
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005, 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	01/13/10 11:50	
n-Pentacosane (S)	%	84	50-135	01/13/10 11:50	

LABORATORY CONTROL SAMPLE & LCSD: 388938			388939							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Components	mg/kg	167	143	154	86		50-114	8		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 388940		388941									
Parameter	Units	9260831010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	209	209	185	196	89	94	50-107	6	
n-Pentacosane (S)	%						89	94	50-135		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

QC Batch: GCV/3771 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005

METHOD BLANK: 389173

Matrix: Solid

Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	01/12/10 14:31	
4-Bromofluorobenzene (S)	%	106	50-135	01/12/10 14:31	

LABORATORY CONTROL SAMPLE: 389174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	28.5	114	70-150	
4-Bromofluorobenzene (S)	%			101	50-135	

MATRIX SPIKE SAMPLE: 389175

Parameter	Units	9260586001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	14.6	17.9	110	70-148	
4-Bromofluorobenzene (S)	%				92	50-135	

SAMPLE DUPLICATE: 389176

Parameter	Units	9260586002 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	146	123	17	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

QC Batch: GCV/3777 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

METHOD BLANK: 389541 Matrix: Solid
Associated Lab Samples: 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	01/13/10 01:15	
4-Bromofluorobenzene (S)	%	108	50-135	01/13/10 01:15	

LABORATORY CONTROL SAMPLE: 389542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	27.3	109	70-150	
4-Bromofluorobenzene (S)	%			114	50-135	

MATRIX SPIKE SAMPLE: 389543

Parameter	Units	9260831006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	6.0	21.2	34.1	133	70-148	
4-Bromofluorobenzene (S)	%				107	50-135	

SAMPLE DUPLICATE: 389544

Parameter	Units	9260831007 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	8.9		
4-Bromofluorobenzene (S)	%	105	115	9	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

QC Batch: GCV/3775 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005, 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

METHOD BLANK: 389529 Matrix: Solid
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005, 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	10.0	01/13/10 00:48	
Aliphatic (C09-C12)	mg/kg	ND	10.0	01/13/10 00:48	
Aromatic (C09-C10)	mg/kg	ND	10.0	01/13/10 00:48	
2,5-Dibromotoluene (FID)(S)	%	106	70-130	01/13/10 00:48	
2,5-Dibromotoluene (PID)(S)	%	91	70-130	01/13/10 00:48	

LABORATORY CONTROL SAMPLE & LCSD: 389530

389531

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	15	14.3	13.6	95	90	70-130	5	25	
Aliphatic (C09-C12)	mg/kg	15	14.2	15.2	95	101	30-130	6	25	
Aromatic (C09-C10)	mg/kg	5	ND	ND	94	96	70-130		25	
2,5-Dibromotoluene (FID)(S)	%				117	110	70-130			
2,5-Dibromotoluene (PID)(S)	%				100	99	70-130			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

QC Batch: MSV/9599 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

METHOD BLANK: 388437 Matrix: Solid
Associated Lab Samples: 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,1,1-Trichloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,1,2-Trichloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,1-Dichloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,1-Dichloroethene	ug/kg	ND	5.0	01/08/10 07:33	
1,1-Dichloropropene	ug/kg	ND	5.0	01/08/10 07:33	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,2,3-Trichloropropane	ug/kg	ND	5.0	01/08/10 07:33	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	01/08/10 07:33	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	01/08/10 07:33	
1,2-Dichlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,2-Dichloroethane	ug/kg	ND	5.0	01/08/10 07:33	
1,2-Dichloropropane	ug/kg	ND	5.0	01/08/10 07:33	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,3-Dichlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
1,3-Dichloropropane	ug/kg	ND	5.0	01/08/10 07:33	
1,4-Dichlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
2,2-Dichloropropane	ug/kg	ND	5.0	01/08/10 07:33	
2-Butanone (MEK)	ug/kg	ND	100	01/08/10 07:33	
2-Chlorotoluene	ug/kg	ND	5.0	01/08/10 07:33	
2-Hexanone	ug/kg	ND	50.0	01/08/10 07:33	
4-Chlorotoluene	ug/kg	ND	5.0	01/08/10 07:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	01/08/10 07:33	
Acetone	ug/kg	ND	100	01/08/10 07:33	
Benzene	ug/kg	ND	5.0	01/08/10 07:33	
Bromobenzene	ug/kg	ND	5.0	01/08/10 07:33	
Bromochloromethane	ug/kg	ND	5.0	01/08/10 07:33	
Bromodichloromethane	ug/kg	ND	5.0	01/08/10 07:33	
Bromoform	ug/kg	ND	5.0	01/08/10 07:33	
Bromomethane	ug/kg	ND	10.0	01/08/10 07:33	
Carbon tetrachloride	ug/kg	ND	5.0	01/08/10 07:33	
Chlorobenzene	ug/kg	ND	5.0	01/08/10 07:33	
Chloroethane	ug/kg	ND	10.0	01/08/10 07:33	
Chloroform	ug/kg	ND	5.0	01/08/10 07:33	
Chloromethane	ug/kg	ND	10.0	01/08/10 07:33	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	01/08/10 07:33	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	01/08/10 07:33	
Dibromochloromethane	ug/kg	ND	5.0	01/08/10 07:33	
Dibromomethane	ug/kg	ND	5.0	01/08/10 07:33	
Dichlorodifluoromethane	ug/kg	ND	10.0	01/08/10 07:33	

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

METHOD BLANK: 388437

Matrix: Solid

Associated Lab Samples: 9260831006, 9260831007, 9260831008, 9260831009, 9260831010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	01/08/10 07:33	
Ethylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	01/08/10 07:33	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	01/08/10 07:33	
m&p-Xylene	ug/kg	ND	10.0	01/08/10 07:33	
Methyl-tert-butyl ether	ug/kg	ND	5.0	01/08/10 07:33	
Methylene Chloride	ug/kg	ND	20.0	01/08/10 07:33	
n-Butylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
n-Propylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
Naphthalene	ug/kg	ND	5.0	01/08/10 07:33	
o-Xylene	ug/kg	ND	5.0	01/08/10 07:33	
p-Isopropyltoluene	ug/kg	ND	5.0	01/08/10 07:33	
sec-Butylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
Styrene	ug/kg	ND	5.0	01/08/10 07:33	
tert-Butylbenzene	ug/kg	ND	5.0	01/08/10 07:33	
Tetrachloroethene	ug/kg	ND	5.0	01/08/10 07:33	
Toluene	ug/kg	ND	5.0	01/08/10 07:33	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	01/08/10 07:33	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	01/08/10 07:33	
Trichloroethene	ug/kg	ND	5.0	01/08/10 07:33	
Trichlorofluoromethane	ug/kg	ND	5.0	01/08/10 07:33	
Vinyl acetate	ug/kg	ND	50.0	01/08/10 07:33	
Vinyl chloride	ug/kg	ND	10.0	01/08/10 07:33	
Xylene (Total)	ug/kg	ND	10.0	01/08/10 07:33	
1,2-Dichloroethane-d4 (S)	%	95	69-121	01/08/10 07:33	
4-Bromofluorobenzene (S)	%	100	74-115	01/08/10 07:33	
Dibromofluoromethane (S)	%	98	79-116	01/08/10 07:33	
Toluene-d8 (S)	%	101	88-110	01/08/10 07:33	

LABORATORY CONTROL SAMPLE: 388438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	59.7	119	75-137	
1,1,1-Trichloroethane	ug/kg	50	58.0	116	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	60.8	122	74-133	
1,1,2-Trichloroethane	ug/kg	50	62.0	124	79-129	
1,1-Dichloroethane	ug/kg	50	62.8	126	72-139	
1,1-Dichloroethene	ug/kg	50	59.9	120	69-154	
1,1-Dichloropropene	ug/kg	50	58.9	118	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	62.8	126	71-150	
1,2,3-Trichloropropane	ug/kg	50	58.7	117	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	63.4	127	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	63.4	127	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	61.2	122	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	60.5	121	77-136	

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

LABORATORY CONTROL SAMPLE: 388438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	63.2	126	75-141	
1,2-Dichloroethane	ug/kg	50	55.5	111	74-134	
1,2-Dichloropropane	ug/kg	50	60.1	120	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	62.0	124	65-128	
1,3-Dichlorobenzene	ug/kg	50	61.6	123	76-133	
1,3-Dichloropropane	ug/kg	50	61.3	123	79-132	
1,4-Dichlorobenzene	ug/kg	50	60.4	121	75-137	
2,2-Dichloropropane	ug/kg	50	60.9	122	73-137	
2-Butanone (MEK)	ug/kg	100	123	123	61-138	
2-Chlorotoluene	ug/kg	50	61.1	122	73-138	
2-Hexanone	ug/kg	100	109	109	58-159	
4-Chlorotoluene	ug/kg	50	63.4	127	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	118	118	74-139	
Acetone	ug/kg	100	116	116	58-150	
Benzene	ug/kg	50	59.2	118	71-140	
Bromobenzene	ug/kg	50	60.8	122	72-144	
Bromochloromethane	ug/kg	50	60.4	121	78-133	
Bromodichloromethane	ug/kg	50	56.2	112	78-133	
Bromoform	ug/kg	50	53.2	106	74-132	
Bromomethane	ug/kg	50	51.2	102	63-184	
Carbon tetrachloride	ug/kg	50	67.3	135	73-143	
Chlorobenzene	ug/kg	50	62.1	124	77-137	
Chloroethane	ug/kg	50	62.1	124	68-146	
Chloroform	ug/kg	50	56.6	113	75-137	
Chloromethane	ug/kg	50	60.9	122	54-143	
cis-1,2-Dichloroethene	ug/kg	50	59.9	120	71-143	
cis-1,3-Dichloropropene	ug/kg	50	60.6	121	76-133	
Dibromochloromethane	ug/kg	50	58.7	117	77-131	
Dibromomethane	ug/kg	50	62.8	126	63-184	
Dichlorodifluoromethane	ug/kg	50	54.0	108	36-173	
Diisopropyl ether	ug/kg	50	56.6	113	68-144	
Ethylbenzene	ug/kg	50	62.5	125	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	61.9	124	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	62.8	126	77-143	
m&p-Xylene	ug/kg	100	123	123	72-138	
Methyl-tert-butyl ether	ug/kg	50	55.7	111	2-138	
Methylene Chloride	ug/kg	50	56.4	113	69-136	
n-Butylbenzene	ug/kg	50	62.9	126	65-128	
n-Propylbenzene	ug/kg	50	62.0	124	72-139	
Naphthalene	ug/kg	50	67.8	136	61-138	
o-Xylene	ug/kg	50	63.8	128	74-137	
p-Isopropyltoluene	ug/kg	50	62.8	126	66-128	
sec-Butylbenzene	ug/kg	50	61.8	124	72-140	
Styrene	ug/kg	50	57.5	115	76-137	
tert-Butylbenzene	ug/kg	50	62.2	124	68-141	
Tetrachloroethene	ug/kg	50	62.0	124	72-136	
Toluene	ug/kg	50	59.3	119	69-139	
trans-1,2-Dichloroethene	ug/kg	50	58.5	117	72-144	

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

LABORATORY CONTROL SAMPLE: 388438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	60.6	121	73-135	
Trichloroethene	ug/kg	50	59.8	120	75-136	
Trichlorofluoromethane	ug/kg	50	58.8	118	69-144	
Vinyl acetate	ug/kg	100	114	114	50-150	
Vinyl chloride	ug/kg	50	60.6	121	61-145	
Xylene (Total)	ug/kg	150	187	125	73-138	
1,2-Dichloroethane-d4 (S)	%			89	69-121	
4-Bromofluorobenzene (S)	%			100	74-115	
Dibromofluoromethane (S)	%			99	79-116	
Toluene-d8 (S)	%			100	88-110	

MATRIX SPIKE SAMPLE: 388764

Parameter	Units	9260831006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	44.3	44.3	100	33-158	
Benzene	ug/kg	ND	44.3	41.4	93	46-143	
Chlorobenzene	ug/kg	ND	44.3	42.1	95	29-159	
Toluene	ug/kg	ND	44.3	40.7	92	38-145	
Trichloroethene	ug/kg	ND	44.3	38.7	87	70-130	
1,2-Dichloroethane-d4 (S)	%				95	69-121	
4-Bromofluorobenzene (S)	%				98	74-115	
Dibromofluoromethane (S)	%				100	79-116	
Toluene-d8 (S)	%				101	88-110	

SAMPLE DUPLICATE: 388763

Parameter	Units	9260769001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg		ND		
1,1,1-Trichloroethane	ug/kg		ND		
1,1,2,2-Tetrachloroethane	ug/kg		ND		
1,1,2-Trichloroethane	ug/kg		ND		
1,1-Dichloroethane	ug/kg		ND		
1,1-Dichloroethene	ug/kg		ND		
1,1-Dichloropropene	ug/kg		ND		
1,2,3-Trichlorobenzene	ug/kg		ND		
1,2,3-Trichloropropane	ug/kg		ND		
1,2,4-Trichlorobenzene	ug/kg		ND		
1,2,4-Trimethylbenzene	ug/kg		ND		
1,2-Dibromo-3-chloropropane	ug/kg		ND		
1,2-Dibromoethane (EDB)	ug/kg		ND		
1,2-Dichlorobenzene	ug/kg		ND		
1,2-Dichloroethane	ug/kg		ND		
1,2-Dichloropropane	ug/kg		ND		
1,3,5-Trimethylbenzene	ug/kg		ND		
1,3-Dichlorobenzene	ug/kg		ND		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

SAMPLE DUPLICATE: 388763

Parameter	Units	9260769001 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg		ND		
1,4-Dichlorobenzene	ug/kg		ND		
2,2-Dichloropropane	ug/kg		ND		
2-Butanone (MEK)	ug/kg		ND		
2-Chlorotoluene	ug/kg		ND		
2-Hexanone	ug/kg		ND		
4-Chlorotoluene	ug/kg		ND		
4-Methyl-2-pentanone (MIBK)	ug/kg		ND		
Acetone	ug/kg		13.3J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg		ND		
Bromochloromethane	ug/kg		ND		
Bromodichloromethane	ug/kg		ND		
Bromoform	ug/kg		ND		
Bromomethane	ug/kg		ND		
Carbon tetrachloride	ug/kg		ND		
Chlorobenzene	ug/kg		ND		
Chloroethane	ug/kg		ND		
Chloroform	ug/kg		ND		
Chloromethane	ug/kg		ND		
cis-1,2-Dichloroethene	ug/kg		ND		
cis-1,3-Dichloropropene	ug/kg		ND		
Dibromochloromethane	ug/kg		ND		
Dibromomethane	ug/kg		ND		
Dichlorodifluoromethane	ug/kg		ND		
Diisopropyl ether	ug/kg		ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg		ND		
Isopropylbenzene (Cumene)	ug/kg		ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg		ND		
n-Butylbenzene	ug/kg		ND		
n-Propylbenzene	ug/kg		ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg		ND		
sec-Butylbenzene	ug/kg		ND		
Styrene	ug/kg		ND		
tert-Butylbenzene	ug/kg		ND		
Tetrachloroethene	ug/kg		ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg		ND		
trans-1,3-Dichloropropene	ug/kg		ND		
Trichloroethene	ug/kg		ND		
Trichlorofluoromethane	ug/kg		ND		
Vinyl acetate	ug/kg		ND		
Vinyl chloride	ug/kg		ND		

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

SAMPLE DUPLICATE: 388763

Parameter	Units	9260769001 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	95	95	2	
4-Bromofluorobenzene (S)	%	98	98	2	
Dibromofluoromethane (S)	%	98	99	3	
Toluene-d8 (S)	%	101	103	3	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

QC Batch: MSV/9607 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005

METHOD BLANK: 388791 Matrix: Solid
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,1,1-Trichloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,1,2-Trichloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,1-Dichloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,1-Dichloroethene	ug/kg	ND	5.0	01/11/10 03:53	
1,1-Dichloropropene	ug/kg	ND	5.0	01/11/10 03:53	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,2,3-Trichloropropane	ug/kg	ND	5.0	01/11/10 03:53	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	01/11/10 03:53	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	01/11/10 03:53	
1,2-Dichlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,2-Dichloroethane	ug/kg	ND	5.0	01/11/10 03:53	
1,2-Dichloropropane	ug/kg	ND	5.0	01/11/10 03:53	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,3-Dichlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
1,3-Dichloropropane	ug/kg	ND	5.0	01/11/10 03:53	
1,4-Dichlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
2,2-Dichloropropane	ug/kg	ND	5.0	01/11/10 03:53	
2-Butanone (MEK)	ug/kg	ND	100	01/11/10 03:53	
2-Chlorotoluene	ug/kg	ND	5.0	01/11/10 03:53	
2-Hexanone	ug/kg	ND	50.0	01/11/10 03:53	
4-Chlorotoluene	ug/kg	ND	5.0	01/11/10 03:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	01/11/10 03:53	
Acetone	ug/kg	ND	100	01/11/10 03:53	
Benzene	ug/kg	ND	5.0	01/11/10 03:53	
Bromobenzene	ug/kg	ND	5.0	01/11/10 03:53	
Bromochloromethane	ug/kg	ND	5.0	01/11/10 03:53	
Bromodichloromethane	ug/kg	ND	5.0	01/11/10 03:53	
Bromoform	ug/kg	ND	5.0	01/11/10 03:53	
Bromomethane	ug/kg	ND	10.0	01/11/10 03:53	
Carbon tetrachloride	ug/kg	ND	5.0	01/11/10 03:53	
Chlorobenzene	ug/kg	ND	5.0	01/11/10 03:53	
Chloroethane	ug/kg	ND	10.0	01/11/10 03:53	
Chloroform	ug/kg	ND	5.0	01/11/10 03:53	
Chloromethane	ug/kg	ND	10.0	01/11/10 03:53	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	01/11/10 03:53	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	01/11/10 03:53	
Dibromochloromethane	ug/kg	ND	5.0	01/11/10 03:53	
Dibromomethane	ug/kg	ND	5.0	01/11/10 03:53	
Dichlorodifluoromethane	ug/kg	ND	10.0	01/11/10 03:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

METHOD BLANK: 388791

Matrix: Solid

Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	01/11/10 03:53	
Ethylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	01/11/10 03:53	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	01/11/10 03:53	
m&p-Xylene	ug/kg	ND	10.0	01/11/10 03:53	
Methyl-tert-butyl ether	ug/kg	ND	5.0	01/11/10 03:53	
Methylene Chloride	ug/kg	ND	20.0	01/11/10 03:53	
n-Butylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
n-Propylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
Naphthalene	ug/kg	ND	5.0	01/11/10 03:53	
o-Xylene	ug/kg	ND	5.0	01/11/10 03:53	
p-Isopropyltoluene	ug/kg	ND	5.0	01/11/10 03:53	
sec-Butylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
Styrene	ug/kg	ND	5.0	01/11/10 03:53	
tert-Butylbenzene	ug/kg	ND	5.0	01/11/10 03:53	
Tetrachloroethene	ug/kg	ND	5.0	01/11/10 03:53	
Toluene	ug/kg	ND	5.0	01/11/10 03:53	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	01/11/10 03:53	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	01/11/10 03:53	
Trichloroethene	ug/kg	ND	5.0	01/11/10 03:53	
Trichlorofluoromethane	ug/kg	ND	5.0	01/11/10 03:53	
Vinyl acetate	ug/kg	ND	50.0	01/11/10 03:53	
Vinyl chloride	ug/kg	ND	10.0	01/11/10 03:53	
Xylene (Total)	ug/kg	ND	10.0	01/11/10 03:53	
1,2-Dichloroethane-d4 (S)	%	91	69-121	01/11/10 03:53	
4-Bromofluorobenzene (S)	%	98	74-115	01/11/10 03:53	
Dibromofluoromethane (S)	%	99	79-116	01/11/10 03:53	
Toluene-d8 (S)	%	101	88-110	01/11/10 03:53	

LABORATORY CONTROL SAMPLE: 388792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.6	99	75-137	
1,1,1-Trichloroethane	ug/kg	50	49.5	99	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.0	98	74-133	
1,1,2-Trichloroethane	ug/kg	50	51.4	103	79-129	
1,1-Dichloroethane	ug/kg	50	54.9	110	72-139	
1,1-Dichloroethene	ug/kg	50	52.8	106	69-154	
1,1-Dichloropropene	ug/kg	50	52.3	105	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	54.7	109	71-150	
1,2,3-Trichloropropane	ug/kg	50	45.3	91	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	54.8	110	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	55.6	111	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	48.7	97	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	48.8	98	77-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

LABORATORY CONTROL SAMPLE: 388792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	54.0	108	75-141	
1,2-Dichloroethane	ug/kg	50	44.1	88	74-134	
1,2-Dichloropropane	ug/kg	50	51.8	104	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	54.1	108	65-128	
1,3-Dichlorobenzene	ug/kg	50	52.9	106	76-133	
1,3-Dichloropropane	ug/kg	50	50.4	101	79-132	
1,4-Dichlorobenzene	ug/kg	50	52.1	104	75-137	
2,2-Dichloropropane	ug/kg	50	52.9	106	73-137	
2-Butanone (MEK)	ug/kg	100	99.4J	99	61-138	
2-Chlorotoluene	ug/kg	50	53.4	107	73-138	
2-Hexanone	ug/kg	100	89.6	90	58-159	
4-Chlorotoluene	ug/kg	50	55.5	111	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	96.5	96	74-139	
Acetone	ug/kg	100	91.3J	91	58-150	
Benzene	ug/kg	50	52.0	104	71-140	
Bromobenzene	ug/kg	50	51.3	103	72-144	
Bromochloromethane	ug/kg	50	50.1	100	78-133	
Bromodichloromethane	ug/kg	50	46.6	93	78-133	
Bromoform	ug/kg	50	44.8	90	74-132	
Bromomethane	ug/kg	50	42.1	84	63-184	
Carbon tetrachloride	ug/kg	50	56.0	112	73-143	
Chlorobenzene	ug/kg	50	53.5	107	77-137	
Chloroethane	ug/kg	50	56.7	113	68-146	
Chloroform	ug/kg	50	48.8	98	75-137	
Chloromethane	ug/kg	50	54.4	109	54-143	
cis-1,2-Dichloroethene	ug/kg	50	53.1	106	71-143	
cis-1,3-Dichloropropene	ug/kg	50	52.8	106	76-133	
Dibromochloromethane	ug/kg	50	48.1	96	77-131	
Dibromomethane	ug/kg	50	49.1	98	63-184	
Dichlorodifluoromethane	ug/kg	50	45.1	90	36-173	
Diisopropyl ether	ug/kg	50	50.4	101	68-144	
Ethylbenzene	ug/kg	50	53.4	107	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	50.5	101	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	54.7	109	77-143	
m&p-Xylene	ug/kg	100	106	106	72-138	
Methyl-tert-butyl ether	ug/kg	50	47.7	95	2-138	
Methylene Chloride	ug/kg	50	49.7	99	69-136	
n-Butylbenzene	ug/kg	50	55.3	111	65-128	
n-Propylbenzene	ug/kg	50	54.1	108	72-139	
Naphthalene	ug/kg	50	56.8	114	61-138	
o-Xylene	ug/kg	50	54.4	109	74-137	
p-Isopropyltoluene	ug/kg	50	55.2	110	66-128	
sec-Butylbenzene	ug/kg	50	54.0	108	72-140	
Styrene	ug/kg	50	50.5	101	76-137	
tert-Butylbenzene	ug/kg	50	54.0	108	68-141	
Tetrachloroethene	ug/kg	50	51.6	103	72-136	
Toluene	ug/kg	50	51.7	103	69-139	
trans-1,2-Dichloroethene	ug/kg	50	51.6	103	72-144	

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

LABORATORY CONTROL SAMPLE: 388792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	50.5	101	73-135	
Trichloroethene	ug/kg	50	50.6	101	75-136	
Trichlorofluoromethane	ug/kg	50	49.7	99	69-144	
Vinyl acetate	ug/kg	100	97.6	98	50-150	
Vinyl chloride	ug/kg	50	55.9	112	61-145	
Xylene (Total)	ug/kg	150	160	107	73-138	
1,2-Dichloroethane-d4 (S)	%			85	69-121	
4-Bromofluorobenzene (S)	%			99	74-115	
Dibromofluoromethane (S)	%			99	79-116	
Toluene-d8 (S)	%			102	88-110	

MATRIX SPIKE SAMPLE: 389076

Parameter	Units	9260788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	40.7	46.7	115	33-158	
Benzene	ug/kg	ND	40.7	42.4	104	46-143	
Chlorobenzene	ug/kg	ND	40.7	37.2	91	29-159	
Toluene	ug/kg	ND	40.7	40.6	100	38-145	
Trichloroethene	ug/kg	ND	40.7	39.1	96	70-130	
1,2-Dichloroethane-d4 (S)	%				87	69-121	
4-Bromofluorobenzene (S)	%				96	74-115	
Dibromofluoromethane (S)	%				97	79-116	
Toluene-d8 (S)	%				101	88-110	

SAMPLE DUPLICATE: 389077

Parameter	Units	9260831001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

SAMPLE DUPLICATE: 389077

Parameter	Units	9260831001 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	9.9J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	3J		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

SAMPLE DUPLICATE: 389077

Parameter	Units	9260831001 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	94	91	10	
4-Bromofluorobenzene (S)	%	99	98	8	
Dibromofluoromethane (S)	%	99	98	8	
Toluene-d8 (S)	%	104	102	9	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9260831

QC Batch: PMST/2971 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9260831001, 9260831002, 9260831003, 9260831004, 9260831005, 9260831006, 9260831007, 9260831008

SAMPLE DUPLICATE: 388234

Parameter	Units	9260782013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.4	17.2	1	

SAMPLE DUPLICATE: 388235

Parameter	Units	9260831008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.1	18.3	1	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9260831

QC Batch: PMST/2972

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 9260831009, 9260831010

SAMPLE DUPLICATE: 388708

Parameter	Units	9260897001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.0	15.7	8	

SAMPLE DUPLICATE: 388709

Parameter	Units	9260871008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%		12.8		

QUALIFIERS

Project: TT-2 Tank Yank

Pace Project No.: 9260831

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Pace Analytical Services Inc. - Huntersville
9800 Kinsey Avenue
Huntersville, NC 28078**

Attention: Ms. Ashley Nifong

Report Number: ATA0171

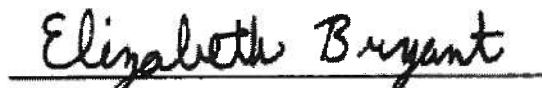
January 14, 2010

Project: TT-II Tank Yank

Project #:9260831

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:


Project Manager

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All test results relate only to the samples analyzed.



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT-2989-1/ 9260831001	ATA0171-01	Solid	01/06/10 10:45	01/08/10 11:25
TT-2989-2/ 9260831002	ATA0171-02	Solid	01/06/10 10:35	01/08/10 11:25
TT-2989-3/ 9260831003	ATA0171-03	Solid	01/06/10 10:20	01/08/10 11:25
TT-2989-4/ 9260831004	ATA0171-04	Solid	01/06/10 10:05	01/08/10 11:25
TT-2989-B-7.5/ 9260831005	ATA0171-05	Solid	01/06/10 10:50	01/08/10 11:25
TT-3019-2/ 9260831006	ATA0171-06	Solid	01/05/10 14:45	01/08/10 11:25
TT-3019-3/ 9260831007	ATA0171-07	Solid	01/05/10 09:30	01/08/10 11:25
TT-3019-4/ 9260831008	ATA0171-08	Solid	01/05/10 09:00	01/08/10 11:25
TT-3019-B-10/ 9260831009	ATA0171-09	Solid	01/05/10 12:45	01/08/10 11:25
TT-3019-1/ 9260831010	ATA0171-10	Solid	01/05/10 08:45	01/08/10 11:25



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinney Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-1/ 9260831001

Date/Time Sampled: 1/6/2010 10:45:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-01

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	79.0	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Acenaphthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Acenaphthylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Aniline	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzo(a)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzo(a)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzo(b)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzo(ghi)perylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzo(k)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzoic acid	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzyl alcohol	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Benzyl butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Bromophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Di-n-butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Chloroaniline	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Bis(2-chloroethoxy)methane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Bis(2-chloroethyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Chloro-3-methylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Chloronaphthalene	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Chlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Chlorophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Chrysene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Dibenzo(a,h)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Dibenzofuran	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1,2-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1,3-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1,4-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
3,3'-Dichlorobenzidine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,4-Dichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Diethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,4-Dimethylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC



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Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinney Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-1/ 9260831001

Lab Number ID: ATA0171-01

Date/Time Sampled: 1/6/2010 10:45:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,4-Dinitrophenol	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,4-Dinitrotoluene	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,6-Dinitrotoluene	ND	840	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Fluorene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Hexachlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Hexachlorobutadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Hexachlorocyclopentadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Hexachloroethane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Isophorone	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Methylnaphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Methylphenol (o-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Naphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Nitroaniline	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
3-Nitroaniline	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Nitroaniline	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Nitrobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2-Nitrophenol	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
4-Nitrophenol	ND	2200	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
N-Nitrosodimethylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
N-Nitrosodi-n-propylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Di-n-octyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Pentachlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Phenanthrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Phenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Pyridine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1,2,4-Trichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
2,4,5-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-1/ 9260831001

Date/Time Sampled: 1/6/2010 10:45:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-01

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
1-Methylnaphthalene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 18:55	0010181	RAC
Surrogate: 2-Fluorophenol	53 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	
Surrogate: Phenol-d5	59 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	
Surrogate: Nitrobenzene-d5	50 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	
Surrogate: 2-Fluorobiphenyl	51 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	
Surrogate: 2,4,6-Tribromophenol	54 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	
Surrogate: p-Terphenyl-d14	63 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 18:55	0010181	



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January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-2/ 9260831002

Date/Time Sampled: 1/6/2010 10:35:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-02

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	79.2	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Acenaphthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Acenaphthylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Aniline	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzo(a)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzo(a)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzo(b)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzo(ghi)perylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzo(k)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzyl alcohol	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Benzyl butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Bromophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Di-n-butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Chloroaniline	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Bis(2-chloroethoxy)methane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Bis(2-chloroethyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Chloro-3-methylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Chloronaphthalene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Chlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Chlorophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Chrysene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Dibenzo(a,h)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Dibenzofuran	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1,2-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1,3-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1,4-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
3,3'-Dichlorobenzidine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,4-Dichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Diethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,4-Dimethylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC



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Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-02

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,4-Dinitrotoluene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,6-Dinitrotoluene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Fluorene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Hexachlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Hexachlorobutadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Hexachlorocyclopentadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Hexachloroethane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Isophorone	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Methylnaphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Methylphenol (o-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Naphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Nitrobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
N-Nitrosodimethylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
N-Nitrosodi-n-propylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Di-n-octyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Pentachlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Phenanthrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Phenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Pyridine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1,2,4-Trichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
2,4,5-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
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Pace Analytical Services Inc. - Huntersv
9800 Kincey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-2/ 9260831002

Lab Number ID: ATA0171-02

Date/Time Sampled: 1/6/2010 10:35:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
1-Methylnaphthalene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:16	0010181	RAC
Surrogate: 2-Fluorophenol	49 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	
Surrogate: Phenol-d5	52 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	
Surrogate: Nitrobenzene-d5	48 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	
Surrogate: 2-Fluorobiphenyl	51 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	
Surrogate: 2,4,6-Tribromophenol	52 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	
Surrogate: p-Terphenyl-d14	77 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 19:16	0010181	



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-3/ 9260831003

Date/Time Sampled: 1/6/2010 10:20:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-03

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	80.3	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Acenaphthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Acenaphthylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Aniline	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzo(a)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzo(a)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzo(b)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzo(ghi)perylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzo(k)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzyl alcohol	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Benzyl butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Bromophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Di-n-butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Chloroaniline	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Bis(2-chloroethoxy)methane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Bis(2-chloroethyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Chloro-3-methylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Chloronaphthalene	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Chlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Chlorophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Chrysene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Dibenzo(a,h)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Dibenzofuran	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1,2-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1,3-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1,4-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
3,3'-Dichlorobenzidine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,4-Dichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Diethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,4-Dimethylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-3/ 9260831003

Date/Time Sampled: 1/6/2010 10:20:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-03

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,4-Dinitrotoluene	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,6-Dinitrotoluene	ND	820	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Fluorene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Hexachlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Hexachlorobutadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Hexachlorocyclopentadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Hexachloroethane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Isophorone	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Methylnaphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Methylphenol (o-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Naphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Nitrobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
N-Nitrosodimethylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
N-Nitrosodi-n-propylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Di-n-octyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Pentachlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Phenanthrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Phenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Pyridine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1,2,4-Trichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
2,4,5-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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Pace Analytical Services Inc. - Huntersv
9800 Kinney Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-3/ 9260831003

Lab Number ID: ATA0171-03

Date/Time Sampled: 1/6/2010 10:20:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
1-Methylnaphthalene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:37	0010181	RAC
Surrogate: 2-Fluorophenol	51 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	
Surrogate: Phenol-d5	57 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	
Surrogate: Nitrobenzene-d5	50 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	
Surrogate: 2-Fluorobiphenyl	54 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	
Surrogate: 2,4,6-Tribromophenol	47 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	
Surrogate: p-Terphenyl-d14	66 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 19:37	0010181	



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January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-4/ 9260831004

Lab Number ID: ATA0171-04

Date/Time Sampled: 1/6/2010 10:05:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	79.3	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Acenaphthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Acenaphthylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Aniline	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzo(a)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzo(a)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzo(b)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzo(ghi)perylene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzo(k)fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzyl alcohol	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Benzyl butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Bromophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Di-n-butyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Chloroaniline	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Bis(2-chloroethoxy)methane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Bis(2-chloroethyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Chloro-3-methylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Chloronaphthalene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Chlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Chlorophenyl phenyl ether	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Chrysene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Dibenzo(a,h)anthracene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Dibenzofuran	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1,2-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1,3-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1,4-Dichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
3,3'-Dichlorobenzidine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,4-Dichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Diethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,4-Dimethylphenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-4/ 9260831004

Lab Number ID: ATA0171-04

Date/Time Sampled: 1/6/2010 10:05:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,4-Dinitrotoluene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,6-Dinitrotoluene	ND	830	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Fluoranthene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Fluorene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Hexachlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Hexachlorobutadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Hexachlorocyclopentadiene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Hexachloroethane	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Isophorone	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Methylnaphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Methylphenol (o-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Naphthalene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Nitrobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
N-Nitrosodimethylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
N-Nitrosodi-n-propylamine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Di-n-octyl phthalate	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Pentachlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Phenanthrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Phenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Pyrene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Pyridine	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1,2,4-Trichlorobenzene	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
2,4,5-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
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Pace Analytical Services Inc. - Huntersv
9800 Kincey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-4/ 9260831004

Lab Number ID: ATA0171-04

Date/Time Sampled: 1/6/2010 10:05:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
1-Methylnaphthalene *	ND	420	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 19:58	0010181	RAC
Surrogate: 2-Fluorophenol	55 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	
Surrogate: Phenol-d5	60 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	
Surrogate: Nitrobenzene-d5	51 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	
Surrogate: 2-Fluorobiphenyl	54 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	
Surrogate: 2,4,6-Tribromophenol	57 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	
Surrogate: p-Terphenyl-d14	69 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 19:58	0010181	



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Huntersville NC, 28078

Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-B-7.5/ 9260831005

Date/Time Sampled: 1/6/2010 10:50:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-05

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	85.1	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Acenaphthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Acenaphthylene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Aniline	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzo(a)anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzo(a)pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzo(b)fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzo(ghi)perylene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzo(k)fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzoic acid	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzyl alcohol	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Benzyl butyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Bromophenyl phenyl ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Di-n-butyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Chloroaniline	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Bis(2-chloroethoxy)methane	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Bis(2-chloroethyl)ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Chloro-3-methylphenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Chloronaphthalene	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Chlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Chlorophenyl phenyl ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Chrysene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Dibenzo(a,h)anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Dibenzofuran	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1,2-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1,3-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1,4-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
3,3'-Dichlorobenzidine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,4-Dichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Diethyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,4-Dimethylphenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC



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Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-2989-B-7.5/ 9260831005

Date/Time Sampled: 1/6/2010 10:50:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-05

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,4-Dinitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,4-Dinitrotoluene	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,6-Dinitrotoluene	ND	770	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Fluorene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Hexachlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Hexachlorobutadiene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Hexachlorocyclopentadiene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Hexachloroethane	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Isophorone	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Methylnaphthalene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Methylphenol (o-cresol)	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Naphthalene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
3-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Nitrobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
4-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
N-Nitrosodimethylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
N-Nitrosodi-n-propylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Di-n-octyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Pentachlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Phenanthrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Phenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Pyridine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1,2,4-Trichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
2,4,5-Trichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC



ANALYTICAL SERVICES, INC.

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Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-2989-B-7.5/ 9260831005

Lab Number ID: ATA0171-05

Date/Time Sampled: 1/6/2010 10:50:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
1-Methylnaphthalene *	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/12/10 13:58	0010181	RAC
Surrogate: 2-Fluorophenol	64 %	10-91		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	
Surrogate: Phenol-d5	73 %	10-98		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	
Surrogate: Nitrobenzene-d5	58 %	10-100		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	
Surrogate: 2-Fluorobiphenyl	68 %	10-102		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	
Surrogate: 2,4,6-Tribromophenol	63 %	10-189		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	
Surrogate: p-Terphenyl-d14	69 %	10-114		EPA 8270D			1/11/10 9:40	1/12/10 13:58	0010181	



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January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-2/ 9260831006

Lab Number ID: ATA0171-06

Date/Time Sampled: 1/5/2010 2:45:00PM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	83.7	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Acenaphthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Acenaphthylene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Aniline	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzo(a)anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzo(a)pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzo(b)fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzo(ghi)perylene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzo(k)fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzoic acid	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzyl alcohol	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Benzyl butyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Bromophenyl phenyl ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Di-n-butyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Chloroaniline	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Bis(2-chloroethoxy)methane	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Bis(2-chloroethyl)ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Chloro-3-methylphenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Chloronaphthalene	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Chlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Chlorophenyl phenyl ether	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Chrysene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Dibenzo(a,h)anthracene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Dibenzofuran	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1,2-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1,3-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1,4-Dichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
3,3'-Dichlorobenzidine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,4-Dichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Diethyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,4-Dimethylphenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-2/ 9260831006

Date/Time Sampled: 1/5/2010 2:45:00PM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-06

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,4-Dinitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,4-Dinitrotoluene	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,6-Dinitrotoluene	ND	790	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Fluoranthene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Fluorene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Hexachlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Hexachlorobutadiene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Hexachlorocyclopentadiene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Hexachloroethane	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Isophorone	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Methylnaphthalene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Methylphenol (o-cresol)	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Naphthalene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
3-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Nitrobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
4-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
N-Nitrosodimethylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
N-Nitrosodi-n-propylamine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Di-n-octyl phthalate	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Pentachlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Phenanthrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Phenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Pyrene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Pyridine	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1,2,4-Trichlorobenzene	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
2,4,5-Trichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC



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9800 Kincey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-2/ 9260831006

Lab Number ID: ATA0171-06

Date/Time Sampled: 1/5/2010 2:45:00PM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
1-Methylnaphthalene *	ND	390	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 20:40	0010181	RAC
Surrogate: 2-Fluorophenol	56 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	
Surrogate: Phenol-d5	63 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	
Surrogate: Nitrobenzene-d5	54 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	
Surrogate: 2-Fluorobiphenyl	59 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	
Surrogate: 2,4,6-Tribromophenol	69 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	
Surrogate: p-Terphenyl-d14	76 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 20:40	0010181	



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-3/ 9260831007

Date/Time Sampled: 1/5/2010 9:30:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-07

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	86.1	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Acenaphthene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Acenaphthylene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Aniline	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzo(a)anthracene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzo(a)pyrene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzo(b)fluoranthene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzo(ghi)perylene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzo(k)fluoranthene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzoic acid	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzyl alcohol	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Benzyl butyl phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Bromophenyl phenyl ether	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Di-n-butyl phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Chloroaniline	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Bis(2-chloroethoxy)methane	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Bis(2-chloroethyl)ether	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Chloro-3-methylphenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Chloronaphthalene	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Chlorophenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Chlorophenyl phenyl ether	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Chrysene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Dibenzo(a,h)anthracene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Dibenzofuran	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1,2-Dichlorobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1,3-Dichlorobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1,4-Dichlorobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
3,3'-Dichlorobenzidine	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,4-Dichlorophenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Diethyl phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,4-Dimethylphenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-3/ 9260831007

Lab Number ID: ATA0171-07

Date/Time Sampled: 1/5/2010 9:30:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,4-Dinitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,4-Dinitrotoluene	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,6-Dinitrotoluene	ND	760	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Fluoranthene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Fluorene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Hexachlorobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Hexachlorobutadiene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Hexachlorocyclopentadiene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Hexachloroethane	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Isophorone	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Methylnaphthalene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Methylphenol (o-cresol)	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Naphthalene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
3-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Nitroaniline	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Nitrobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
4-Nitrophenol	ND	2000	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
N-Nitrosodimethylamine	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
N-Nitrosodi-n-propylamine	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Di-n-octyl phthalate	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Pentachlorophenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Phenanthrene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Phenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Pyrene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Pyridine	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1,2,4-Trichlorobenzene	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
2,4,5-Trichlorophenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

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Date/Time Sampled: 1/5/2010 9:30:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-07

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
1-Methylnaphthalene *	ND	380	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:02	0010181	RAC
Surrogate: 2-Fluorophenol	66 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	
Surrogate: Phenol-d5	73 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	
Surrogate: Nitrobenzene-d5	61 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	
Surrogate: 2-Fluorobiphenyl	68 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	
Surrogate: 2,4,6-Tribromophenol	68 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	
Surrogate: p-Terphenyl-d14	74 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 21:02	0010181	



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-4/ 9260831008

Lab Number ID: ATA0171-08

Date/Time Sampled: 1/5/2010 9:00:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	80.6	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Acenaphthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Acenaphthylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Aniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzo(a)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzo(a)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzo(b)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzo(ghi)perylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzo(k)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzyl alcohol	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Benzyl butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Bromophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Di-n-butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Chloroaniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Bis(2-chloroethoxy)methane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Bis(2-chloroethyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Chloro-3-methylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Chloronaphthalene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Chlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Chlorophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Chrysene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Dibenzo(a,h)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Dibenzofuran	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1,2-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1,3-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1,4-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
3,3'-Dichlorobenzidine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,4-Dichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Diethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,4-Dimethylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC



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9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-4/ 9260831008

Lab Number ID: ATA0171-08

Date/Time Sampled: 1/5/2010 9:00:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,4-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,6-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Fluorene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Hexachlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Hexachlorobutadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Hexachlorocyclopentadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Hexachloroethane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Isophorone	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Methylnaphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Methylphenol (o-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Naphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Nitrobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
N-Nitrosodimethylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
N-Nitrosodi-n-propylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Di-n-octyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Pentachlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Phenanthrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Phenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Pyridine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1,2,4-Trichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
2,4,5-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC



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9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-4/ 9260831008

Date/Time Sampled: 1/5/2010 9:00:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-08

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
1-Methylnaphthalene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:23	0010181	RAC
Surrogate: 2-Fluorophenol	64 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	
Surrogate: Phenol-d5	72 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	
Surrogate: Nitrobenzene-d5	60 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	
Surrogate: 2-Fluorobiphenyl	64 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	
Surrogate: 2,4,6-Tribromophenol	72 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	
Surrogate: p-Terphenyl-d14	81 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 21:23	0010181	



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January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-B-10/ 9260831009

Date/Time Sampled: 1/5/2010 12:45:00PM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-09

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	80.9	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Acenaphthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Acenaphthylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Aniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzo(a)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzo(a)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzo(b)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzo(ghi)perylene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzo(k)fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzyl alcohol	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Benzyl butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Bromophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Di-n-butyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Chloroaniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Bis(2-chloroethoxy)methane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Bis(2-chloroethyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Chloro-3-methylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Chloronaphthalene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Chlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Chlorophenyl phenyl ether	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Chrysene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Dibenzo(a,h)anthracene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Dibenzofuran	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1,2-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1,3-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1,4-Dichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
3,3'-Dichlorobenzidine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,4-Dichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Diethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,4-Dimethylphenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-B-10/ 9260831009

Lab Number ID: ATA0171-09

Date/Time Sampled: 1/5/2010 12:45:00PM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,4-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,6-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Fluoranthene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Fluorene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Hexachlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Hexachlorobutadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Hexachlorocyclopentadiene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Hexachloroethane	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Isophorone	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Methylnaphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Methylphenol (o-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Naphthalene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Nitrobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
N-Nitrosodimethylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
N-Nitrosodi-n-propylamine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Di-n-octyl phthalate	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Pentachlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Phenanthrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Phenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Pyrene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Pyridine	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1,2,4-Trichlorobenzene	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
2,4,5-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-B-10/ 9260831009

Date/Time Sampled: 1/5/2010 12:45:00PM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-09

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
1-Methylnaphthalene *	ND	410	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 21:44	0010181	RAC
Surrogate: 2-Fluorophenol	65 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	
Surrogate: Phenol-d5	71 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	
Surrogate: Nitrobenzene-d5	61 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	
Surrogate: 2-Fluorobiphenyl	68 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	
Surrogate: 2,4,6-Tribromophenol	65 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	
Surrogate: p-Terphenyl-d14	79 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 21:44	0010181	



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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-1/ 9260831010

Lab Number ID: ATA0171-10

Date/Time Sampled: 1/5/2010 8:45:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	81.2	0.04 % by Weight		SOP Moisture		1	1/13/10 9:25	1/13/10 9:25	0010177	MZF
Semivolatile Organic Compounds by EPA 8270										
Anthracene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Acenaphthene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Acenaphthylene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Aniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzo(a)anthracene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzo(a)pyrene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzo(b)fluoranthene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzo(ghi)perylene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzo(k)fluoranthene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzoic acid	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzyl alcohol	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Benzyl butyl phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Bromophenyl phenyl ether	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Di-n-butyl phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Chloroaniline	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Bis(2-chloroethoxy)methane	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Bis(2-chloroethyl)ether	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Bis(2-chloroisopropyl)ether	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Chloro-3-methylphenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Chloronaphthalene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Chlorophenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Chlorophenyl phenyl ether	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Chrysene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Dibenzo(a,h)anthracene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Dibenzofuran	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1,2-Dichlorobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1,3-Dichlorobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1,4-Dichlorobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
3,3'-Dichlorobenzidine	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,4-Dichlorophenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Diethyl phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,4-Dimethylphenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC



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Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Client ID: TT-3019-1/ 9260831010

Date/Time Sampled: 1/5/2010 8:45:00AM

Matrix: Solid

Project: TT-II Tank Yank

Lab Number ID: ATA0171-10

Date/Time Received: 1/8/2010 11:25:00AM

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
Dimethyl phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,4-Dinitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,4-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,6-Dinitrotoluene	ND	810	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1,2-Diphenylhydrazine as azobenzene *	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Bis(2-ethylhexyl)phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Fluoranthene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Fluorene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Hexachlorobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Hexachlorobutadiene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Hexachlorocyclopentadiene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Hexachloroethane	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Isophorone	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Methylnaphthalene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Methylphenol (o-cresol)	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
3+4-Methylphenol (m+p-cresol)	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Naphthalene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
3-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Nitroaniline	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Nitrobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
4-Nitrophenol	ND	2100	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
N-Nitrosodimethylamine	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
N-Nitrosodiphenylamine/Diphenylamine	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
N-Nitrosodi-n-propylamine	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Di-n-octyl phthalate	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Pentachlorophenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Phenanthrene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Phenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Pyrene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Pyridine	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1,2,4-Trichlorobenzene	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
2,4,5-Trichlorophenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC



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9800 Kincey Avenue
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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Project: TT-II Tank Yank

Client ID: TT-3019-1/ 9260831010

Lab Number ID: ATA0171-10

Date/Time Sampled: 1/5/2010 8:45:00AM

Date/Time Received: 1/8/2010 11:25:00AM

Matrix: Solid

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270										
2,4,6-Trichlorophenol	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
1-Methylnaphthalene *	ND	400	ug/kg dry	EPA 8270D		1	1/11/10 9:40	1/11/10 22:05	0010181	RAC
Surrogate: 2-Fluorophenol	63 %	10-91		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	
Surrogate: Phenol-d5	71 %	10-98		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	
Surrogate: Nitrobenzene-d5	58 %	10-100		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	
Surrogate: 2-Fluorobiphenyl	61 %	10-102		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	
Surrogate: 2,4,6-Tribromophenol	68 %	10-189		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	
Surrogate: p-Terphenyl-d14	85 %	10-114		EPA 8270D			1/11/10 9:40	1/11/10 22:05	0010181	



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January 14, 2010

Report No.: ATA0171

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0010177 - % Solids										
Duplicate (0010177-DUP1)		Source: ATA0171-06			Prepared & Analyzed: 01/13/10					
% Solids	83.8	0.04	% by Weight		83.7			0.2	12	
Duplicate (0010177-DUP2)		Source: ATA0172-03			Prepared & Analyzed: 01/13/10					
% Solids	88.2	0.04	% by Weight		87.0			1	12	



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January 14, 2010

Report No.: ATA0171

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0010181 - EPA 3550B										
Blank (0010181-BLK1)				Prepared & Analyzed: 01/11/10						
Anthracene	ND	330	ug/kg wet							
Acenaphthene	ND	330	ug/kg wet							
Acenaphthylene	ND	330	ug/kg wet							
Aniline	ND	660	ug/kg wet							
Benzo(a)anthracene	ND	330	ug/kg wet							
Benzo(a)pyrene	ND	330	ug/kg wet							
Benzo(b)fluoranthene	ND	330	ug/kg wet							
Benzo(ghi)perylene	ND	330	ug/kg wet							
Benzo(k)fluoranthene	ND	330	ug/kg wet							
Benzoic acid	ND	1700	ug/kg wet							
Benzyl alcohol	ND	660	ug/kg wet							
Benzyl butyl phthalate	ND	330	ug/kg wet							
4-Bromophenyl phenyl ether	ND	330	ug/kg wet							
Di-n-butyl phthalate	ND	330	ug/kg wet							
4-Chloroaniline	ND	660	ug/kg wet							
Bis(2-chloroethoxy)methane	ND	330	ug/kg wet							
Bis(2-chloroethyl)ether	ND	330	ug/kg wet							
Bis(2-chloroisopropyl)ether	ND	330	ug/kg wet							
4-Chloro-3-methylphenol	ND	330	ug/kg wet							
2-Chloronaphthalene	ND	660	ug/kg wet							
2-Chlorophenol	ND	330	ug/kg wet							
4-Chlorophenyl phenyl ether	ND	330	ug/kg wet							
Chrysene	ND	330	ug/kg wet							
Dibenzo(a,h)anthracene	ND	330	ug/kg wet							
Dibenzofuran	ND	330	ug/kg wet							
1,2-Dichlorobenzene	ND	330	ug/kg wet							
1,3-Dichlorobenzene	ND	330	ug/kg wet							
1,4-Dichlorobenzene	ND	330	ug/kg wet							
3,3'-Dichlorobenzidine	ND	330	ug/kg wet							
2,4-Dichlorophenol	ND	330	ug/kg wet							
Diethyl phthalate	ND	330	ug/kg wet							
2,4-Dimethylphenol	ND	330	ug/kg wet							
Dimethyl phthalate	ND	330	ug/kg wet							
4,6-Dinitro-2-methylphenol	ND	1700	ug/kg wet							
2,4-Dinitrophenol	ND	1700	ug/kg wet							
2,4-Dinitrotoluene	ND	660	ug/kg wet							
2,6-Dinitrotoluene	ND	660	ug/kg wet							
1,2-Diphenylhydrazine as azobenzene	ND	330	ug/kg wet							
Bis(2-ethylhexyl)phthalate	ND	330	ug/kg wet							
Fluoranthene	ND	330	ug/kg wet							
Fluorene	ND	330	ug/kg wet							



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January 14, 2010

Report No.: ATA0171

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0010181 - EPA 3550B										
Blank (0010181-BLK1)				Prepared & Analyzed: 01/11/10						
Hexachlorobenzene	ND	330	ug/kg wet							
Hexachlorobutadiene	ND	330	ug/kg wet							
Hexachlorocyclopentadiene	ND	330	ug/kg wet							
Hexachloroethane	ND	330	ug/kg wet							
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg wet							
Isophorone	ND	330	ug/kg wet							
2-Methylnaphthalene	ND	330	ug/kg wet							
3+4-Methylphenol (m+p-cresol)	ND	330	ug/kg wet							
2-Methylphenol (o-cresol)	ND	330	ug/kg wet							
Naphthalene	ND	330	ug/kg wet							
2-Nitroaniline	ND	1700	ug/kg wet							
3-Nitroaniline	ND	1700	ug/kg wet							
4-Nitroaniline	ND	1700	ug/kg wet							
Nitrobenzene	ND	330	ug/kg wet							
2-Nitrophenol	ND	1700	ug/kg wet							
4-Nitrophenol	ND	1700	ug/kg wet							
N-Nitrosodimethylamine	ND	330	ug/kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	330	ug/kg wet							
N-Nitrosodi-n-propylamine	ND	330	ug/kg wet							
Di-n-octyl phthalate	ND	330	ug/kg wet							
Pentachlorophenol	ND	330	ug/kg wet							
Phenanthrene	ND	330	ug/kg wet							
Phenol	ND	330	ug/kg wet							
Pyrene	ND	330	ug/kg wet							
Pyridine	ND	330	ug/kg wet							
1,2,4-Trichlorobenzene	ND	330	ug/kg wet							
2,4,5-Trichlorophenol	ND	330	ug/kg wet							
2,4,6-Trichlorophenol	ND	330	ug/kg wet							
1-Methylnaphthalene	ND	330	ug/kg wet							
Surrogate: 2-Fluorophenol	2181		ug/kg wet	3331.1		65	10-91			
Surrogate: Phenol-d5	2419		ug/kg wet	3331.1		73	10-98			
Surrogate: Nitrobenzene-d5	1051		ug/kg wet	1665.6		63	10-100			
Surrogate: 2-Fluorobiphenyl	1218		ug/kg wet	1665.6		73	10-102			
Surrogate: 2,4,6-Tribromophenol	2421		ug/kg wet	3331.1		73	10-189			
Surrogate: p-Terphenyl-d14	1478		ug/kg wet	1665.6		89	10-114			



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Pace Analytical Services Inc. - Huntersv
9800 Kinsey Avenue
Huntersville NC, 28078
Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0010181 - EPA 3550B										
LCS (0010181-BS1)				Prepared: 01/11/10 Analyzed: 01/12/10						
Acenaphthene	1300	330	ug/kg wet	1666.1		78	29-105			
4-Chloro-3-methylphenol	2500	330	ug/kg wet	3332.2		74	35-97			
2-Chlorophenol	2100	330	ug/kg wet	3332.2		64	29-91			
1,4-Dichlorobenzene	1000	330	ug/kg wet	1666.1		60	24-89			
2,4-Dinitrotoluene	1400	660	ug/kg wet	1666.1		86	34-103			
4-Nitrophenol	2400	1700	ug/kg wet	3332.2		73	19-118			
N-Nitrosodi-n-propylamine	1200	330	ug/kg wet	1666.1		72	23-97			
Pentachlorophenol	2700	330	ug/kg wet	3332.2		80	29-119			
Phenol	2300	330	ug/kg wet	3332.2		68	29-90			
Pyrene	1600	330	ug/kg wet	1666.1		94	34-134			
1,2,4-Trichlorobenzene	950	330	ug/kg wet	1666.1		57	22-97			
Surrogate: 2-Fluorophenol	1642		ug/kg wet	3332.2		49	10-91			
Surrogate: Phenol-d5	1878		ug/kg wet	3332.2		56	10-98			
Surrogate: Nitrobenzene-d5	760.1		ug/kg wet	1666.1		46	10-100			
Surrogate: 2-Fluorobiphenyl	965.3		ug/kg wet	1666.1		58	10-102			
Surrogate: 2,4,6-Tribromophenol	2232		ug/kg wet	3332.2		67	10-189			
Surrogate: p-Terphenyl-d14	1240		ug/kg wet	1666.1		74	10-114			
Matrix Spike (0010181-MS1)				Source: ATA0129-01		Prepared & Analyzed: 01/11/10				
Acenaphthene	1600	410	ug/kg dry	2058.3	ND	80	31-105			
4-Chloro-3-methylphenol	3100	410	ug/kg dry	4116.5	ND	75	32-100			
2-Chlorophenol	2800	410	ug/kg dry	4116.5	ND	69	28-91			
1,4-Dichlorobenzene	1300	410	ug/kg dry	2058.3	ND	64	24-85			
2,4-Dinitrotoluene	1800	820	ug/kg dry	2058.3	ND	87	23-111			
4-Nitrophenol	3500	2100	ug/kg dry	4116.5	ND	85	20-104			
N-Nitrosodi-n-propylamine	1500	410	ug/kg dry	2058.3	ND	71	26-92			
Pentachlorophenol	3600	410	ug/kg dry	4116.5	ND	88	24-118			
Phenol	3000	410	ug/kg dry	4116.5	ND	74	29-89			
Pyrene	1900	410	ug/kg dry	2058.3	ND	91	43-120			
1,2,4-Trichlorobenzene	1300	410	ug/kg dry	2058.3	ND	65	24-93			
Surrogate: 2-Fluorophenol	2214		ug/kg dry	4116.5		54	10-91			
Surrogate: Phenol-d5	2411		ug/kg dry	4116.5		59	10-98			
Surrogate: Nitrobenzene-d5	1085		ug/kg dry	2058.3		53	10-100			
Surrogate: 2-Fluorobiphenyl	1253		ug/kg dry	2058.3		61	10-102			
Surrogate: 2,4,6-Tribromophenol	2684		ug/kg dry	4116.5		65	10-189			
Surrogate: p-Terphenyl-d14	1466		ug/kg dry	2058.3		71	10-114			



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9800 Kinney Avenue
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Attention: Ms. Ashley Nifong

January 14, 2010

Report No.: ATA0171

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0010181 - EPA 3550B										
Matrix Spike Dup (0010181-MSD1)			Source: ATA0129-01			Prepared & Analyzed: 01/11/10				
Acenaphthene	1700	410	ug/kg dry	2064.4	ND	81	31-105	2	45	
4-Chloro-3-methylphenol	3100	410	ug/kg dry	4128.9	ND	75	32-100	0.4	59	
2-Chlorophenol	2900	410	ug/kg dry	4128.9	ND	70	28-91	0.7	50	
1,4-Dichlorobenzene	1400	410	ug/kg dry	2064.4	ND	67	24-85	4	46	
2,4-Dinitrotoluene	1800	820	ug/kg dry	2064.4	ND	88	23-111	1	53	
4-Nitrophenol	3500	2100	ug/kg dry	4128.9	ND	86	20-104	2	56	
N-Nitrosodi-n-propylamine	1600	410	ug/kg dry	2064.4	ND	77	26-92	8	69	
Pentachlorophenol	3600	410	ug/kg dry	4128.9	ND	87	24-118	0.8	47	
Phenol	3100	410	ug/kg dry	4128.9	ND	75	29-89	1	49	
Pyrene	1900	410	ug/kg dry	2064.4	ND	93	43-120	3	45	
1,2,4-Trichlorobenzene	1400	410	ug/kg dry	2064.4	ND	66	24-93	2	51	
Surrogate: 2-Fluorophenol	2157		ug/kg dry	4128.9		52	10-91			
Surrogate: Phenol-d5	2412		ug/kg dry	4128.9		58	10-98			
Surrogate: Nitrobenzene-d5	1052		ug/kg dry	2064.4		51	10-100			
Surrogate: 2-Fluorobiphenyl	1227		ug/kg dry	2064.4		59	10-102			
Surrogate: 2,4,6-Tribromophenol	2567		ug/kg dry	4128.9		62	10-189			
Surrogate: p-Terphenyl-d14	1427		ug/kg dry	2064.4		69	10-114			



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Attention: Ms. Ashley Nifong

January 14, 2010

Laboratory Certifications

Code	Description	Number	Expires
NELAC	NELAC (Drinking Water, Non-Potable Water, Solids)	E87315	06/30/2010
SC	South Carolina	98011001	06/30/2010



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Attention: Ms. Ashley Nifong

January 14, 2010

Legend

Definition of Laboratory Terms

- ND** - None Detected at the Reporting Limit
- TIC** - Tentatively Identified Compound
- CFU** - Colony Forming Units
- SOP** - Method run per ASI Standard Operating Procedure
- RL** - Reporting Limit
- DF** - Dilution Factor
- * - Analyte not included in the NELAC list of certified analytes.

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. ASI is not NELAC certified for diphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

Note: Unless otherwise noted, all results are reported on an as received basis.



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 1/14/2010 2:03:35PM

Attn: Ms. Ashley Nifong

Client: Pace Analytical Services Inc. - Huntersville

Project: TT-II Tank Yank

Date Received: 01/08/10 11:25

Work Order: ATA0171

Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 10

#Containers: 10

Minimum Temp(C): 1.0

Maximum Temp(C): 1.0

Custody Seal(s) Used: No

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	NO
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



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Wednesday, January 13, 2010

Pace Analytical (PA007)

Attn: Ashley Nifong

9800 Kincey Ave. Suite 100

Huntersville, NC 28078

RE: Laboratory Results for

Project Number: 9260831, Project Name/Desc: TT-2 Tank Yank

ENCO Workorder: C000226

Dear Ashley Nifong,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, January 8, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Franz". The signature is fluid and cursive, with a large, stylized initial "S" and "F".

Stephanie Franz

Project Manager

Enclosure(s)



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: TT-2989-1		Lab ID: C000226-01		Sampled: 01/06/10 10:45		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/20/10	02/17/10	01/08/10	16:24	1/11/2010 11:36	

Client ID: TT-2989-2		Lab ID: C000226-02		Sampled: 01/06/10 10:35		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/20/10	02/17/10	01/08/10	16:24	1/11/2010 12:07	

Client ID: TT-2989-3		Lab ID: C000226-03		Sampled: 01/06/10 10:20		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/20/10	02/17/10	01/08/10	16:24	1/11/2010 12:36	

Client ID: TT-2989-4		Lab ID: C000226-04		Sampled: 01/06/10 10:05		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/20/10	02/17/10	01/08/10	16:24	1/11/2010 13:07	

Client ID: TT-2989-B-7.5		Lab ID: C000226-05		Sampled: 01/06/10 10:50		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/20/10	02/17/10	01/08/10	16:24	1/11/2010 13:37	

Client ID: TT-3019-2		Lab ID: C000226-06		Sampled: 01/05/10 14:45		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/19/10	02/17/10	01/08/10	16:24	1/11/2010 14:08	

Client ID: TT-3019-3		Lab ID: C000226-07		Sampled: 01/05/10 09:30		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/19/10	02/17/10	01/08/10	16:24	1/11/2010 14:39	

Client ID: TT-3019-4		Lab ID: C000226-08		Sampled: 01/05/10 09:00		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/19/10	02/17/10	01/08/10	16:24	1/11/2010 15:09	

Client ID: TT-3019-B-10		Lab ID: C000226-09		Sampled: 01/05/10 12:45		Received: 01/08/10 12:30
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
MAEPH	01/19/10	02/17/10	01/08/10	16:24	1/11/2010 15:39	



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Client ID: TT-3019-1		Lab ID: C000226-10		Sampled: 01/05/10 08:45		Received: 01/08/10 12:30	
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
MAEPH	01/19/10	02/17/10	01/08/10	16:24	1/11/2010 16:10		

SAMPLE DETECTION SUMMARY

No positive results detected.



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ANALYTICAL RESULTS

Description: TT-2989-1
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-01
Sampled: 01/06/10 10:45
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 79.2

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	21	0A08035	MAEPH	01/11/10 11:36	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	21	0A08035	MAEPH	01/11/10 11:36	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.6	U	mg/kg dry	1	0.6	21	0A08035	MAEPH	01/11/10 11:36	JHH	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
Chloro-octadecane	3.5	1	5.05	69 %	40-140	0A08035	MAEPH	01/11/10 11:36	JHH		
o-Terphenyl	0.83	1	1.68	49 %	40-140	0A08035	MAEPH	01/11/10 11:36	JHH		



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Description: TT-2989-2
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-02
Sampled: 01/06/10 10:35
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 78.3

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	21	0A08035	MAEPH	01/11/10 12:07	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	21	0A08035	MAEPH	01/11/10 12:07	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.6	U	mg/kg dry	1	0.6	21	0A08035	MAEPH	01/11/10 12:07	JHH	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
Chloro-octadecane	4.0	1	5.11	78 %	40-140	0A08035	MAEPH	01/11/10 12:07	JHH		
o-Terphenyl	1.0	1	1.70	60 %	40-140	0A08035	MAEPH	01/11/10 12:07	JHH		

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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Description: TT-2989-3
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-03
Sampled: 01/06/10 10:20
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 80.3

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	21	0A08035	MAEPH	01/11/10 12:36	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	21	0A08035	MAEPH	01/11/10 12:36	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.6	U	mg/kg dry	1	0.6	21	0A08035	MAEPH	01/11/10 12:36	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	4.1	1	4.98	83 %	40-140	0A08035	MAEPH	01/11/10 12:36	JHH	
o-Terphenyl	1.1	1	1.66	66 %	40-140	0A08035	MAEPH	01/11/10 12:36	JHH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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Description: TT-2989-4
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-04
Sampled: 01/06/10 10:05
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 79.1

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	21	0A08035	MAEPH	01/11/10 13:07	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	21	0A08035	MAEPH	01/11/10 13:07	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.6	U	mg/kg dry	1	0.6	21	0A08035	MAEPH	01/11/10 13:07	JHH	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>		<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Chloro-octadecane	4.2	1	5.06	83 %	40-140		0A08035	MAEPH	01/11/10 13:07	JHH	
o-Terphenyl	1.1	1	1.69	67 %	40-140		0A08035	MAEPH	01/11/10 13:07	JHH	

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Description: TT-2989-B-7.5

Matrix: Soil

Project: TT-2 Tank Yank

Lab Sample ID: C000226-05

Sampled: 01/06/10 10:50

Sampled By: Client

Received: 01/08/10 12:30

Work Order: C000226

% Solids: 87.8

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	19	0A08035	MAEPH	01/11/10 13:37	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	19	0A08035	MAEPH	01/11/10 13:37	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.5	U	mg/kg dry	1	0.5	19	0A08035	MAEPH	01/11/10 13:37	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	4.1	1	4.56	90 %	40-140	0A08035	MAEPH	01/11/10 13:37	JHH	
o-Terphenyl	1.1	1	1.52	74 %	40-140	0A08035	MAEPH	01/11/10 13:37	JHH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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Description: TT-3019-2
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-06
Sampled: 01/05/10 14:45
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 84.4

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	20	0A08035	MAEPH	01/11/10 14:08	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	20	0A08035	MAEPH	01/11/10 14:08	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.5	U	mg/kg dry	1	0.5	20	0A08035	MAEPH	01/11/10 14:08	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	3.9	1	4.74	82 %	40-140	0A08035	MAEPH	01/11/10 14:08	JHH	
o-Terphenyl	1.0	1	1.58	66 %	40-140	0A08035	MAEPH	01/11/10 14:08	JHH	

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Description: TT-3019-3

Matrix: Soil

Project: TT-2 Tank Yank

Lab Sample ID: C000226-07

Sampled: 01/05/10 09:30

Sampled By: Client

Received: 01/08/10 12:30

Work Order: C000226

% Solids: 85.1

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	20	0A08035	MAEPH	01/11/10 14:39	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	20	0A08035	MAEPH	01/11/10 14:39	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.5	U	mg/kg dry	1	0.5	20	0A08035	MAEPH	01/11/10 14:39	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	4.0	1	4.70	84 %	40-140	0A08035	MAEPH	01/11/10 14:39	JHH	
o-Terphenyl	1.1	1	1.57	69 %	40-140	0A08035	MAEPH	01/11/10 14:39	JHH	

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Description: TT-3019-4
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-08
Sampled: 01/05/10 09:00
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 81.9

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	20	0A08035	MAEPH	01/11/10 15:09	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	20	0A08035	MAEPH	01/11/10 15:09	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.5	U	mg/kg dry	1	0.5	20	0A08035	MAEPH	01/11/10 15:09	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	4.0	1	4.88	81 %	40-140	0A08035	MAEPH	01/11/10 15:09	JHH	
o-Terphenyl	1.1	1	1.63	65 %	40-140	0A08035	MAEPH	01/11/10 15:09	JHH	

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Description: TT-3019-B-10
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-09
Sampled: 01/05/10 12:45
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 82.3

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	20	0A08035	MAEPH	01/11/10 15:39	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	20	0A08035	MAEPH	01/11/10 15:39	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.5	U	mg/kg dry	1	0.5	20	0A08035	MAEPH	01/11/10 15:39	JHH	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Chloro-octadecane	4.0	1	4.86	81 %	40-140	0A08035	MAEPH	01/11/10 15:39	JHH	
o-Terphenyl	1.1	1	1.62	66 %	40-140	0A08035	MAEPH	01/11/10 15:39	JHH	

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Description: TT-3019-1
Matrix: Soil
Project: TT-2 Tank Yank

Lab Sample ID: C000226-10
Sampled: 01/05/10 08:45
Sampled By: Client

Received: 01/08/10 12:30
Work Order: C000226
% Solids: 79.8

Extractable Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C11-C22 Aromatics [ECL-0020] ^	0.4	U	mg/kg dry	1	0.4	21	0A08035	MAEPH	01/11/10 16:10	JHH	
C19-C36 Aliphatics [ECL-0021] ^	0.3	U	mg/kg dry	1	0.3	21	0A08035	MAEPH	01/11/10 16:10	JHH	
C9-C18 Aliphatics [ECL-0026] ^	0.6	U	mg/kg dry	1	0.6	21	0A08035	MAEPH	01/11/10 16:10	JHH	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Chloro-octadecane	4.6	1	5.01	92 %	40-140	0A08035	MAEPH	01/11/10 16:10	JHH	
o-Terphenyl	1.2	1	1.67	74 %	40-140	0A08035	MAEPH	01/11/10 16:10	JHH	

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QUALITY CONTROL**Extractable Petroleum Hydrocarbons by GC - Quality Control**

Batch 0A08035 - EPA 3545

Blank (0A08035-BLK1)

Prepared: 01/08/2010 16:24 Analyzed: 01/11/2010 09:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C11-C22 Aromatics	0.3	U	17	mg/kg wet							
C19-C36 Aliphatics	0.2	U	17	mg/kg wet							
C9-C18 Aliphatics	0.4	U	17	mg/kg wet							
Surrogate: Chloro-octadecane	3.3			mg/kg wet	4.00		83	40-140			
Surrogate: o-Terphenyl	0.93			mg/kg wet	1.33		69	40-140			

LCS (0A08035-BS1)

Prepared: 01/08/2010 16:24 Analyzed: 01/11/2010 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C11-C22 Aromatics	18		17	mg/kg wet	22.7		80	40-140			
C19-C36 Aliphatics	28		17	mg/kg wet	26.7		106	40-140			
C9-C18 Aliphatics	19		17	mg/kg wet	20.0		96	40-140			
Surrogate: Chloro-octadecane	4.3			mg/kg wet	4.00		107	40-140			
Surrogate: o-Terphenyl	1.2			mg/kg wet	1.33		89	40-140			

LCS Dup (0A08035-BSD1)

Prepared: 01/08/2010 16:24 Analyzed: 01/11/2010 11:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C11-C22 Aromatics	17		17	mg/kg wet	22.7		76	40-140	6	25	
C19-C36 Aliphatics	30		17	mg/kg wet	26.7		112	40-140	6	25	
C9-C18 Aliphatics	19		17	mg/kg wet	20.0		96	40-140	0.5	25	
Surrogate: Chloro-octadecane	4.2			mg/kg wet	4.00		105	40-140			
Surrogate: o-Terphenyl	1.2			mg/kg wet	1.33		87	40-140			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

Chad of Enco

0000226

Pace Analytical
www.pace-analytical.com

Workorder: 9250631	Workorder Name: T1-2 Tank Yank	Results Requested: 1/14/2010			
Sample Information Ashley Wong Pace Analytical Charlotte 5800 Kiresey Ave. Suite 100 Huntersville, NC 28078 Phone: 1704.875.5052 Email: ashleywong@pacelabs.com					
Enco po. C1508178		Site of Field Contaminant FPH			
Item	Sample ID	Collection Date/Time	Lab ID	Matrix	Analysis
1	T1-2001-1	1/6/2010 10:45	9250631001	Solid	
2	T1-2001-2	1/6/2010 10:35	9250631002	Solid	
3	T1-2001-3	1/6/2010 10:25	9250631003	Solid	
4	T1-2001-4	1/6/2010 10:05	9250631004	Solid	
5	T1-2001-5	1/6/2010 10:50	9250631005	Solid	
6	T1-2001-6	1/6/2010 14:45	9250631006	Solid	
7	T1-2001-7	1/6/2010 09:30	9250631007	Solid	
8	T1-2001-8	1/6/2010 09:00	9250631008	Solid	
9	T1-2001-9	1/6/2010 12:45	9250631009	Solid	
10	T1-2001-10	1/6/2010 08:45	9250631010	Solid	
11					
12					
13					
14					
15					
16					

Enco
 1/7/10 17:00
 FedEx 1/7/10 17:00
 Enco
 1/8/10 19:30
 54°C



Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

Client Name: meC

Project # 9260831

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used T060

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.1

Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: smh

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☐ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SC</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):	N/A	

Client Notification/ Resolution:

Field Data Required? Y / N / N/A

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: ew

Date: 1/7/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

