

INITIAL ABATEMENT ACTION REPORT

TT-2506

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

FEBRUARY 5, 2010

**NAVY CONTRACT NO. N62470-05-D-6200
DELIVERY ORDER NO. 0074
CATLIN PROJECT NO. 209112.03**

PREPARED BY:

**CATLIN ENGINEERS AND SCIENTISTS
P. O. BOX 10279
WILMINGTON, NORTH CAROLINA 28404-0279
(910) 452-5861**

CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES: C-0585

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SITE INFORMATION	1
1.1 SITE IDENTIFICATION	1
1.2 CONTACT INFORMATION	1
1.3 RELEASE INFORMATION	2
1.4 CERTIFICATION	2
2.0 SITE HISTORY AND CHARACTERIZATION	2
3.0 UST CLOSURE	3
3.1 PREPARATIONS	3
3.2 PROCEDURES	3
3.3 RESIDUAL MATERIAL AND DISPOSAL	4
4.0 INITIAL RESPONSE AND ABATEMENT ACTIONS	4
5.0 EXCAVATION OF CONTAMINATED SOIL	5
5.1 FIELD SCREENING	5
5.2 EXCAVATION PROCESS	5
5.3 CONFIRMATION SOIL SAMPLING	5
5.4 QUALITY CONTROL MEASURES	5
6.0 GROUNDWATER INVESTIGATION	6
7.0 RESULTS	7
8.0 CONCLUSION AND RECOMMENDATIONS	8
9.0 LIMITATIONS	9

TABLES

TABLE 1	SITE HISTORY – UST OWNER AND OPERATOR INFORMATION
TABLE 2	SITE HISTORY – UST SYSTEM AND RELEASE INFORMATION
TABLE 3	PUBLIC AND PRIVATE WATER SUPPLY WELL AND OTHER RECEPTOR INFORMATION
TABLE 4	SUMMARY OF SOIL LABORATORY RESULTS – EPA METHOD 8015
TABLE 5	SUMMARY OF SOIL LABORATORY RESULTS – EPA METHODS 8260 AND 8270
TABLE 6	SUMMARY OF SOIL LABORATORY RESULTS – MADEP EPH AND VPH
TABLE 7	SUMMARY OF GROUNDWATER LABORATORY RESULTS – EPA METHODS 602 AND 625
TABLE 8	SUMMARY OF GROUNDWATER LABORATORY RESULTS – MADEP EPH AND VPH

TABLE OF CONTENTS (CONTINUED)

FIGURES

- FIGURE 1 USGS TOPOGRAPHIC SITE VICINITY MAP**
FIGURE 2 SITE MAP WITH SOIL AND GROUNDWATER SAMPLE LOCATIONS
FIGURE 3 SITE MAP WITH POTENTIAL RECEPTORS

APPENDICES

- APPENDIX A RISK CLASSIFICATION AND LAND USE FORM**
APPENDIX B UST-61 – 24-HOUR RELEASE AND UST LEAK REPORTING FORM
APPENDIX C UST-2 – SITE INVESTIGATION REPORT FOR PERMANENT CLOSURE OF UST
APPENDIX D LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION
APPENDIX E BORING LOG, WELL CONSTRUCTION AND WELL ABANDONMENT RECORD

1.0 SITE INFORMATION

1.1 SITE IDENTIFICATION

Date of Report: February 5, 2010
Facility I.D.: Not Applicable UST Incident Number (if known): Pending
Site Name: TT-2506
Site Street Address: TT-2506 Bougainville 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' 24.46" N Longitude: 77° 22' 43.75" 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

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

Groundwater Analytical Laboratory: SGS North America, Inc. (SGS)
State Certification No.: 481
Address: 5500 Business Drive; Wilmington, NC 28405
Phone: 910-350-1903

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 15, 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 Underground Storage Tank (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 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. The depth to water is estimated to be approximately ten (10) feet below land surface (BLS).

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 525 feet south of the site. Groundwater flow direction in the surficial aquifer is assumed to flow south 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.

A Risk Classification and Land Use Form is included in Appendix A which will allow the North Carolina Department of Environment and Natural Resources (NCDENR) to formerly assign a Risk Classification and a Land Use designation for the subject site.

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 15, 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 tanks 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 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 B. One UST closure soil sample (TT-2506-B-10.8) was collected beneath the bottom of the tank at approximately 10.8 feet BLS. The TT-2506-B-10.8 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). A *Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)* form is included in Appendix C.

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.

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 personnel, 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 18 feet by 14 feet by 10.8 feet deep. Groundwater was encountered during soil excavation activities at approximately 10.8 feet BLS. The excavation limits are illustrated on Figure 2.

5.3 CONFIRMATION SOIL SAMPLING

During the UST excavation, 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 D. The four (4) excavation confirmation sidewall samples (TT-2506-1, TT-2506-2, TT-2506-3, and TT-2506-4) 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. As previously mentioned, the bottom soil sample (TT-2506-B-10.8) was collected at 10.8 feet BLS which was reportedly within the water table.

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 D), 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 GROUNDWATER INVESTIGATION

A qualified driller registered in the State of North Carolina and a project level geologist installed the boring for temporary monitoring well construction. The temporary well TT2506-TW01 was designed and constructed in accordance with accepted standards and practices. The well was installed, sampled and abandoned under applicable State of North Carolina licensing and documentation requirements.

Well Installation

CATLIN personnel and equipment mobilized to the site on January 12, 2010. Boring advancement for temporary well installation was conducted at the site by hollow stem auger techniques. Soil samples were continuously collected for visual/manual classification utilizing the Unified Soil Classification System (USCS). After classifying soil samples, the cuttings were containerized in a Department of Transportation (DOT) approved 55-gallon drum.

Following TT2506-TW01 boring termination at 15 feet BLS, a 13 feet deep temporary well was installed using a 10 foot long piece of one-inch diameter Poly Vinyl Chloride (PVC) well screen (0.010-inch slot) with a five (5) foot long piece of one-inch diameter PVC riser extending approximately two (2) feet above the ground surface. The annular space was filled with medium sand pack from the bottom of the well to approximately one foot above the well screen and then bentonite chips to within one foot of the ground surface. The bentonite chips were poured from the surface while simultaneously pouring water to facilitate hydration.

Groundwater Sampling

On January 18, 2010 CATLIN personnel returned to the site and approximately five (5) gallons of purge water were removed from the well utilizing new polyethylene

tubing and a low-flow peristaltic pump. Purge water was containerized in a DOT approved 55-gallon drum. A groundwater sample was then pumped directly into the new, appropriately labeled glassware provide by the laboratory and placed on ice in an insulated cooler. The groundwater sample was transported to SGS and submitted for Risk Based analysis per EPA Methods 602 and 625 and MADEP EPH/VPH following chain-of-custody protocol (see attached following the SGS laboratory report).

Upon collection of the groundwater sample, the well materials were removed from the borehole and then bentonite chips and water were poured into the borehole simultaneously to facilitate bentonite hydration. The well construction and abandonment information is provided on the attached Well Construction Record and Well Abandonment Record found in Appendix E. The temporary well and groundwater sample location is illustrated on Figure 2.

7.0 RESULTS

Soil Results – UST Excavation

The complete laboratory analytical reports are attached and the summarized results are provided on Tables 4 through 6. Soil sample locations are illustrated on Figure 2. The TT-2506-B-10.8 soil sample results are provided; but, soils at 10.8 feet BLS are not considered vadose zone and results may be reflective of groundwater impacts.

The TPH DRO and GRO results are summarized on Table 4. No TPH GRO or DRO concentrations were detected above the laboratory reporting limit in the excavation confirmation sidewall samples (TT-2506-1 through TT-2506-4). The TT-2506-B-10.8 soil sample revealed 7.9 mg/kg GRO and 34.3 mg/kg DRO.

The laboratory results per EPA Methods 8260 and 8270 are summarized on Table 5. No EPA Method 8260 or 8270 parameters were detected above the laboratory reporting limits or lowest corresponding MSCC in the excavation confirmation sidewall or bottom samples (TT-2506-1 through TT-2506-4 and TT-2506-B-10.8).

The MADEP EPH and VPH laboratory results are summarized on Table 6. No MADEP EPH or VPH concentrations were detected above the laboratory reporting limit and lowest corresponding MSCC for sidewall samples TT-2506-1 and TT-2506-3. Sidewall samples TT-2506-2 and TT-2506-4 revealed the MADEP C9-C22 Aromatics hydrocarbon fractions at concentrations of <12.01 mg/kg and <13.47 mg/kg, respectively which were below the lowest corresponding MSCC. The above-stated concentrations proceeded by a "<" indicates the result is the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction. The TT-2506-B-10.8 sample revealed concentrations of the MADEP C5-C8 Aliphatics, C9-C18 Aliphatics and C9-C22 Aromatics hydrocarbon fractions at concentrations of 18.0 mg/kg, 248.2 mg/kg and 130.7 mg/kg, respectively. The MADEP C9-C22 Aromatics result is above the respective Soil-to-Groundwater (STGW) MSCC (31 mg/kg) but below the Residential MSCC (469 mg/kg).

Groundwater Results

The complete laboratory analytical reports are attached in Appendix D and summarized results are provided on Tables 7 and 8.

The TT2506-TW01 groundwater sample did not reveal any compound concentrations greater than the established Gross Contaminant Levels (GCLs). Naphthalene was reported at 10.3 micrograms per liter (ug/L), which is above the NCAC T15A:02L Groundwater Quality Standard (2L GWQS) of 6 ug/L effective January 2010. The MADEP C9-C22 Aromatics hydrocarbon fractions were detected above the corresponding 2L GWQS of 200 ug/L at a concentration of 387 ug/L. There are no established GCLs for MADEP EPH/VPH. No other compound concentrations were detected above the current 2L GWQSs.

Certificates of disposal for the USTs, fluids, and soils were not provided by the disposal facilities at the time of this report. It is assumed that 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 the UST excavation measuring 14 feet by 18 feet by 10.8 feet deep (101 cubic yards), roughly 98.0 cubic yards or 147.0 tons of soil were removed during UST TT-2506 closure and excavation activities.

8.0 CONCLUSION AND RECOMMENDATIONS

A non-commercial, non-regulated 550-gallon home heating oil UST at TT-2506 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. Approximately 98 cubic yards of soil were removed during the recent, over-excavation/remediation efforts at the UST location. Excavation confirmation sidewall soil samples (four) did not reveal any contaminant concentrations above the laboratory reporting limits or lowest corresponding MSCCs. The excavation floor sample (TT-2506-B-10.8) revealed hydrocarbon fractions per MADEP analysis at concentrations above the established STGW MSCCs; however, the TT-2506-B-10.8 sample was collected from saturated soils beneath the water table and is not considered indicative of vadose zone soils. Soils at 10.8 feet BLS are not considered a potential secondary source of groundwater contamination or prohibitive of No Further Action status.

Groundwater sample results from the temporary monitoring TT2506-TW01 sample indicated all compound concentrations below the established GCLs. Naphthalene, and C9-C22 Aromatics hydrocarbon fraction concentrations were reported in the TT2506-TW01 groundwater above the current corresponding 2L GWQS.

Based on the information provided within this report; it is CATLIN's opinion that the intent of the requirements of a Limited Site Assessment (LSA) Report have been met and thus is not required. Therefore, the TT-2506 site should be considered a Low Risk site with the Residential MSCCs being applicable for soil cleanup and the GCLs for groundwater cleanup. Based on the recent Risk-Based soil and groundwater sampling, this site meets the criteria for No Further Action (NFA) status with the implementation of a groundwater Notice of Residual Petroleum (NRP) because groundwater contaminants are present above the 2L GWQS at the site. Following NRP recordation with the Onslow County Register of Deeds, the site should fulfill the requirements for NFA status.

9.0 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-2506 - Pending

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator?
TT-2506	Commanding Officer Marine Corps Base Camp Lejeune, NC	Unknown to 12/15/2009	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-2506 - 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-2506	Heating Oil	Heating Oil	550	Unknown Steel	4' x 6'	Copper	Unknown	Removed - 12/15/2009	Yes (assumed)

TABLE 3**PUBLIC AND PRIVATE WATER SUPPLY WELL AND OTHER RECEPTOR INFORMATION**

Incident Name and No.: TT-2506 - 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 Stream	South	Commanding Officer PSC 20004 MCB, Camp Lejeune, 28542	(910) 451-5068	None	Down Gradient (Assumed)	525

TABLE 4
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHOD 8015

Incident Name and No.: TT-2506 - Pending

Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
	Date Collected	Sample Depth (ft. BLS)		
TT-2506-1	12/15/2009	5	<5.5	<6.1
TT-2506-2	12/15/2009	5	<4.9	<5.9
TT-2506-3	12/15/2009	5	<5.2	<5.7
TT-2506-4	12/15/2009	5	<5.2	<5.9
TT-2506-B-10.8	12/15/2009	10.8	7.9	34.3
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

Bold results indicate concentrations above the NCDENR Action Level.

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

Incident Name and No.: TT-2506 - Pending

Sample ID	Analytical Method →		EPA Method 8260	EPA Method 8270
	Contaminant of Concern →		All EPA Method 8260 Parameters*	All EPA Method 8270 Parameters*
	Date Collected	Sample Depth (ft. BLS)		
TT-2506-1	12/15/2009	5	BRL	BRL
TT-2506-2	12/15/2009	5	BRL	BRL
TT-2506-3	12/15/2009	5	BRL	BRL
TT-2506-4	12/15/2009	5	BRL	BRL
TT-2506-B-10.8	12/15/2009	10.8	BRL	BRL
Residential MSCC (ug/kg)			Varies	Varies
Industrial/Commercial MSCC (ug/kg)			Varies	Varies
Soil to Groundwater MSCC (ug/kg)			Varies	Varies

All results in micrograms per kilogram (ug/kg).

ft. BLS = Feet Below Land Surface

MSCC = Maximum Soil Contaminant Concentration

BRL = Below Reporting Limit

*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-2506 - 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-2506-1	12/15/2009	5	<12.3	<12.3	<12.3	<0.256	<0.554	<0.298	<0.256	<12.854	<12.3	<12.598
TT-2506-2	12/15/2009	5	<11.7	<11.7	<11.7	<0.246	<0.532	0.310 J	<0.246	<12.232	<11.7	<12.01*
TT-2506-3	12/15/2009	5	<11.4	<11.4	<11.4	<0.265	<0.573	<0.309	<0.265	<11.973	<11.4	<11.709
TT-2506-4	12/15/2009	5	<11.8	<11.8	<11.8	<0.245	<0.532	1.67	<0.245	<12.332	<11.8	<13.47*
TT-2506-B-10.8	12/15/2009	10.8	158	<60.4	72.5	18.0 D	90.2 D	58.2 D	18.0 D	248.2	<60.4	130.7
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).

Bold results indicate concentrations above lowest MSCC.

ft. BLS = Feet Below Land Surface

< = Less than reporting limit

MSCC = Maximum Soil Contaminant Concentration

= Health-Based Level (>100%)

D = The sample was analyzed at dilution.

* = The value represents the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction.

TABLE 7
SUMMARY OF GROUNDWATER LABORATORY RESULTS
EPA METHODS 602 AND 625

Incident Name and No.: TT-2506 - Pending

Well ID	Analytical Method →		EPA Method 602			EPA Method 625				
	Contaminant of Concern →		Ethylbenzene	Total Xylenes	All other EPA Method 602 Compounds*	Acenaphthene	Fluorene	Naphthalene	Phenanthrene	All other EPA Method 625 Compounds*
	Date Collected	Sample ID								
TT2506-TW01	1/18/2010	TT2506-TW01	1.33	8.31	BMDL	1.13 J	1.64 J	10.3	1.08 J	BMDL
GCL (ug/L)			84,500	87,500	Varies	2,120	990	15,500	410	Varies
2L GWQS (ug/L)			600	500	Varies	80	300	6	200	Varies

All results in micrograms per liter (ug/L).

Bold results indicate concentrations above 2L GWQS or GCL.

Gross Contaminant Levels (GCL) and NCAC T15A:02L Groundwater Quality Standards (2L GWQS) effective January 2010.

BMDL = Below Method Detection Limit

J = Estimated concentration, below calibration range and above method detection limits (MDLs)

* = Refer to analytical report for a complete list of compounds and MDLs.

TABLE 8
SUMMARY OF GROUNDWATER LABORATORY RESULTS
MADEP EPH AND VPH

Incident Name and No.: TT-2506 - 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	Well ID										
TT2506-TW01	1/18/2010	TT2506-TW01	<100	<100	210	<100	<100	177	<100	<200	<100	387
GCL (ug/L) 2L GWQS (ug/L)									NE 400	NE 700	NE 10,000	NE 200

All results in micrograms per liter (ug/L).

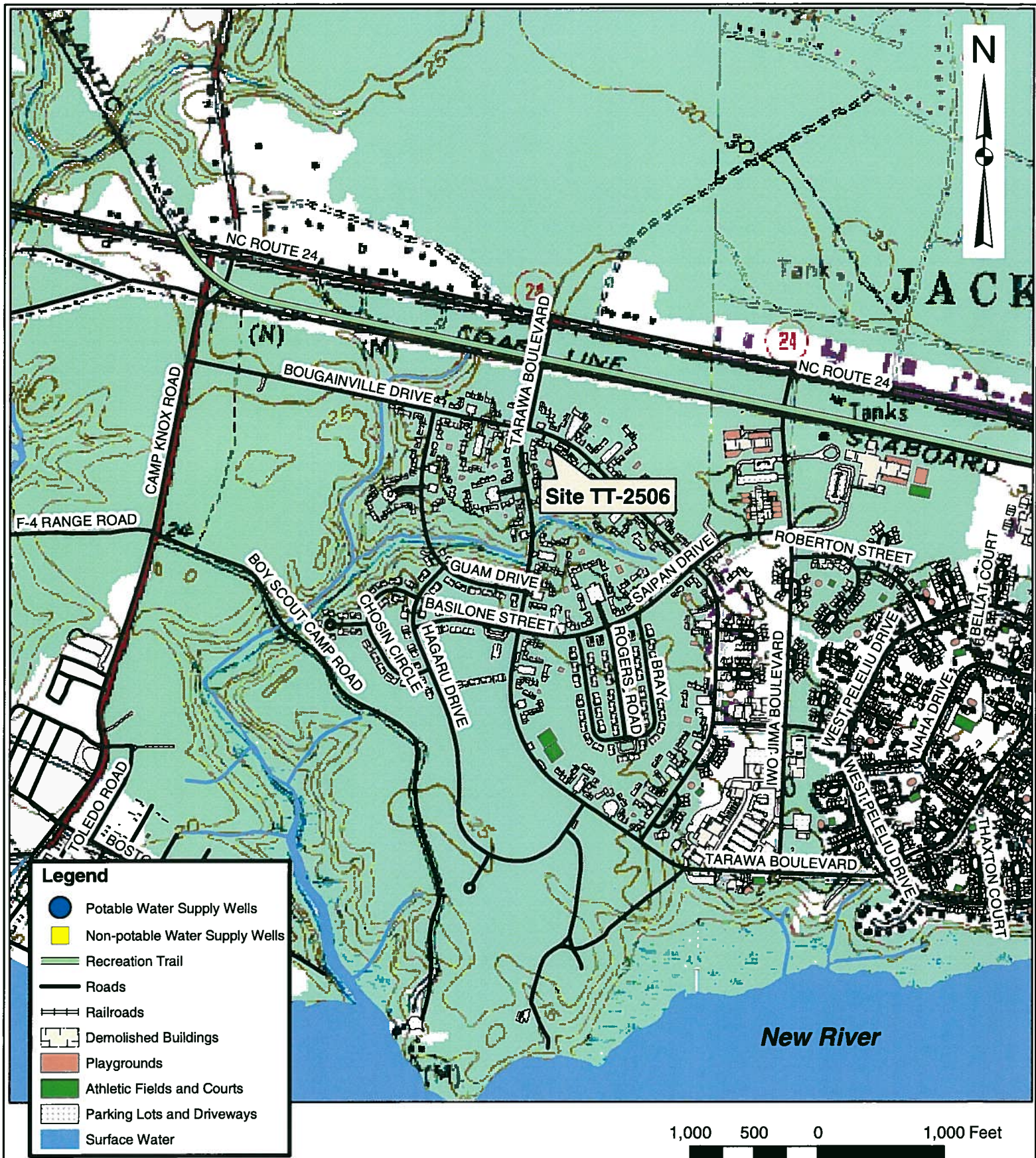
Gross Contaminant Levels (GCL) and NCAC T15A:02L Groundwater Quality Standards (2L GWQS) effective January 2010.

< = Less than reporting limit

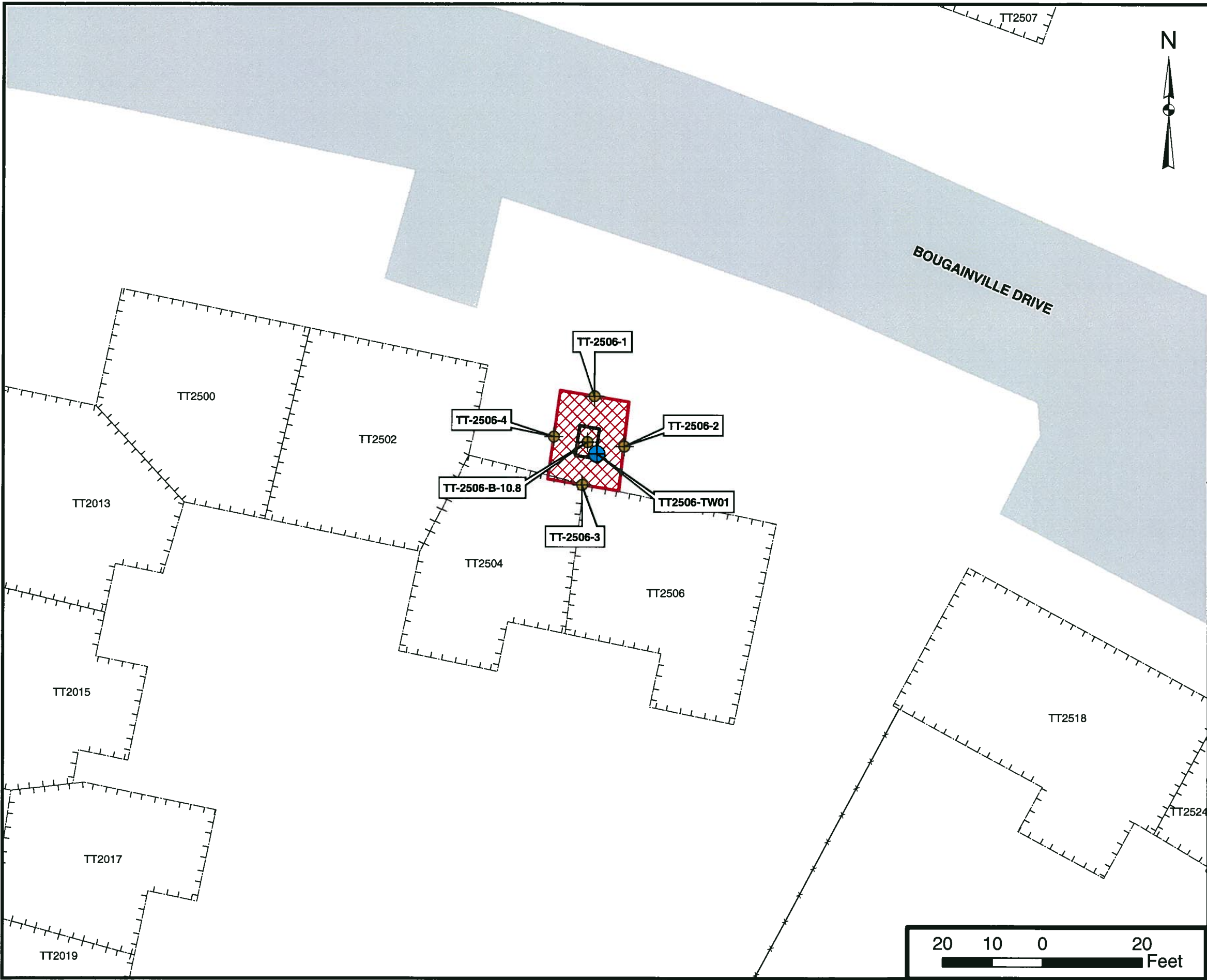
NE = None Established

Bold results indicate concentrations above 2L GWQS or GCL.

FIGURES



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



**SITE TT-2506
IAA REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NC**



LEGEND

- | | |
|-------------------------|-------------------------------------|
| Tank Excavation Area | Demolished Buildings and Structures |
| Former UST | Slabs |
| Soil Sample Locations | Driveways |
| Temporary Well Location | Roads |
| | Woods |

NOTES

1. Data layers provided by MCB Camp Lejeune GIS office.
2. Excavation dimensions were approximately 18 feet by 14 feet by 10.5 feet deep.
3. Tank location, excavation boundary and soil sample locations based on site sketch provided by TMS personnel.

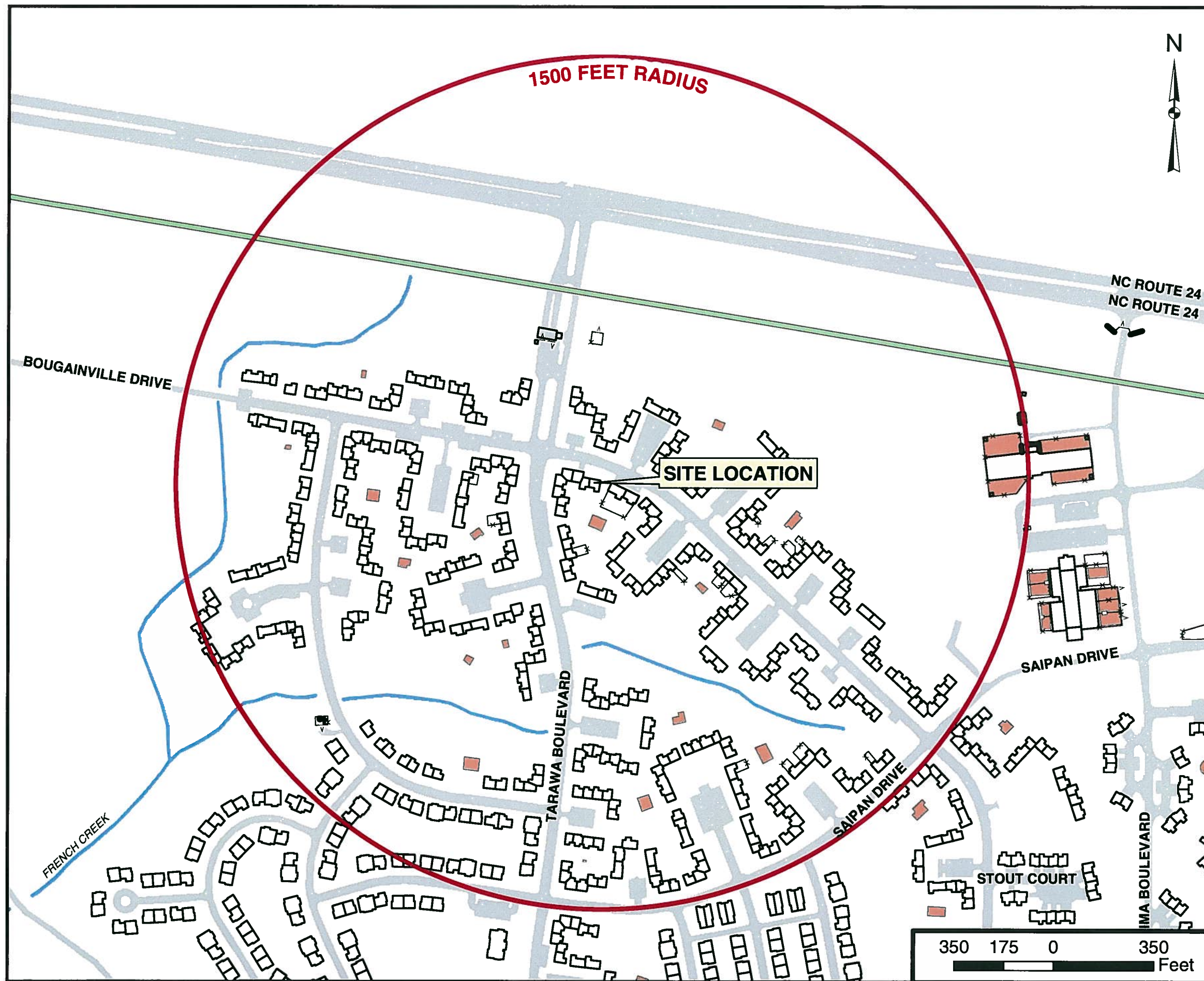


**SITE MAP WITH SOIL
AND GROUNDWATER
SAMPLE LOCATIONS**

FIGURE

2

Job No.: 209112.03	Date: JAN 2010	Scale: AS SHOWN	Drawn By: SAC	Checked By: MDM
-----------------------	-------------------	--------------------	------------------	--------------------



**SITE TT-2506
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.: 209112.03	Date: JAN 2010	Scale: AS SHOWN	Drawn By: SAC	Checked By: MDM
-----------------------	-------------------	--------------------	------------------	--------------------

APPENDICES

APPENDIX A

RISK CLASSIFICATION AND LAND USE FORM

NCDENR Risk Classification and Land Use Form

Part I - Groundwater/Surface Water/Vapor Impacts

High Risk

1. *Has the release contaminated any water supply well including any used for non-drinking purposes?*

YES NO

No information provided indicates a water supply well has been contaminated as a result of the release from the project site.

2. *Is a water supply well used for drinking water located within 1,000 feet of the source area of the discharge or release?*

YES NO

There is no water supply well located within 1,000 feet of the source area of the release (refer to Figures 1 and 3).

3. *Is a water supply well not used for drinking water (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release?*

YES NO

There is no water supply well not used for drinking water located within 250 feet of the source area of the release (refer to Figures 1 and 3).

4. *Does groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than the groundwater)?*

YES NO

Currently MCB Camp Lejeune has several locations for potential water supply wells that are greater than 500 feet from the potential source area (refer to Figure 1 and 3).

5. *Do vapors from the release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment?
If YES describe.*

YES NO

No evidence of vapor accumulation has been reported.

6. *Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment?
If YES describe.*

YES NO

A review of data collected during this investigation does not provide evidence to suggest other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment.

Intermediate Risk

7. *Is a surface water body located within 500 feet of the source area of the discharge or release?* YES NO

Yes, the nearest mapped surface water body (unnamed tributary of French Creek) is located approximately 525 feet towards the south (see Figure 3).

*If **YES**, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B.0200 by a factor of 10?*

8. *Is the source area of the discharge or release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)?* YES NO
If YES describe. YES NO

Wellhead protection areas defined by 42 USC 300h-7(e) have not, as of this time, been designated by the State. However, MCB Camp Lejeune has identified wellhead protection areas on the base. Based on the most recent Wellhead Protection Plan – 2002 Update, the potential source area is not located within a proposed wellhead protection area.

9. *Is the release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985?* YES NO

As identified in the Geologic Map of North Carolina (North Carolina Department of Natural Resources and Community Development 1985), the subject site lies within the Coastal Plain Physiographic Province.

If YES, is the source area of the release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? YES NO
If YES describe

The potential source area is located just above an apparent unconfined surficial groundwater aquifer. While there is the potential for recharge by rainfall to the unconfined surficial aquifer at the Base, the surficial aquifer is not used for water supply aboard MCB, Camp Lejeune. Groundwater obtained from the Castle Hayne Aquifer is the raw water source for MCB Camp Lejeune potable water treatment facilities.

10. *Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels (GCLs) established by the Department?* YES NO

Surficial groundwater samples from a temporary site monitoring well were analyzed per EPA Method 602 + MTBE + Xylenes, EPA Method 625 + TICs and MADEP VPH and EPH parameters. A review of laboratory analysis results indicates no subject analyte concentrations were detected in excess of applicable GCLs.

Part II - Land Use

Property Containing Source Area of Release

The questions below pertain to the property containing the source area of the release.

1. *Does the property contain one or more primary or secondary residences (permanent or temporary)?* **YES** **NO**
Describe.

Former Building TT-2506 (which has been demolished) was a permanent residence. New permanent residences are being constructed in the immediate vicinity of the former building.

2. *Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly?* **YES** **NO**
Describe.

The area of former Building TT-2506 does not contain a place of public assembly.

3. *Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped?* **YES** **NO**
Describe.

The project site is located within the Tarawa Terrace residential housing area of MCB Camp Lejeune.

4. *Do children visit the property?* **YES** **NO**
Explain.

Children may live at the new residences being constructed in the immediate vicinity of former Building TT-2506.

Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? **YES** **NO**
Explain.

The project site is located within the MCB, Camp Lejeune which restricts access to base personnel and their families. However, there are no other additional restrictions to gain access to the site area.

5. *Do pavement, buildings, or other structures cap the contaminated soil?* **YES** **NO**
Describe.

As previously stated, new residences are being constructed in the area; therefore, the area may be capped by a structure foundation or parking area.

If YES, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?

If a structure is built in the area it would act as a cap to prevent possible exposure to residual soil contaminants (if present).

6. *What is the zoning status of the property?*

The MCB Camp Lejeune is not subject to local or county-zoning requirements; however, the project site is located within the Tarawa Terrace residential housing area.

7. *Is the use of the property likely to change in the next 20 years?* YES NO
Explain.

The current use of the local MCB Camp Lejeune area is not likely to change in the near future.

Property Surrounding Source Area of Release

The questions below pertain to the area within 1,500 feet of the source area of the release (excludes property containing source area of the release): See Figure 1

1. *What is the distance from the source area of the release to the **nearest** primary or secondary residence (permanent or temporary)?*

The project site is a permanent residence.

2. *What is the distance from the source area of the release to the **nearest** school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?*

The nearest place of public assembly appears to be a playground approximately 150 feet south of the subject site. However, as the entire area is being redeveloped with new residential housing units the locations of community playgrounds may change.

3. *What is the zoning status of properties in the surrounding area?*

As previously stated, MCB Camp Lejeune is not subject to local or county-zoning requirements; however, the use of the project site is considered Residential in nature.

4. *Briefly characterize the use and activities of the land in the surrounding area.*

The project site is located within the Tarawa Terrace residential housing area of MCB Camp Lejeune.

APPENDIX B

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 12/15/09
Comm/Non-Commercial? _____
Reg/Non-regulated? Non-regulated

INCIDENT DESCRIPTION

Incident Name: TT-2506 Tank Removal

Address: TT-2506 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' 24.46" N Longitude (decimal degrees): 77 22' 43.75" 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. Some samples
were above lowest NC DENR MSCCs. Monitoring well to be
installed. No impacts to receptors suspected. 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

Definitions presented on reverse

Cause of Release

(Check one to indicate primary cause)

- ☐ Spill
☐ Overfill
☐ Corrosion
☐ Physical or Mechanical Damage
☐ Install Problem
☐ Other
☒ Unknown

Definitions presented on reverse

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

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 SUPPLIESWater 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 OWNERUST Owner/Company
Commanding Officer, Marine Corps Base, Camp LejeunePoint of Contact
Bruce MarkwickAddress
Bldg 12, Post LaneCity
Camp LejeuneState
NCZip Code
28542Telephone 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 INCIDENTLandowner
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	1/15/2010

UST Form 61 (02/08)

Page 2 of 2

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)

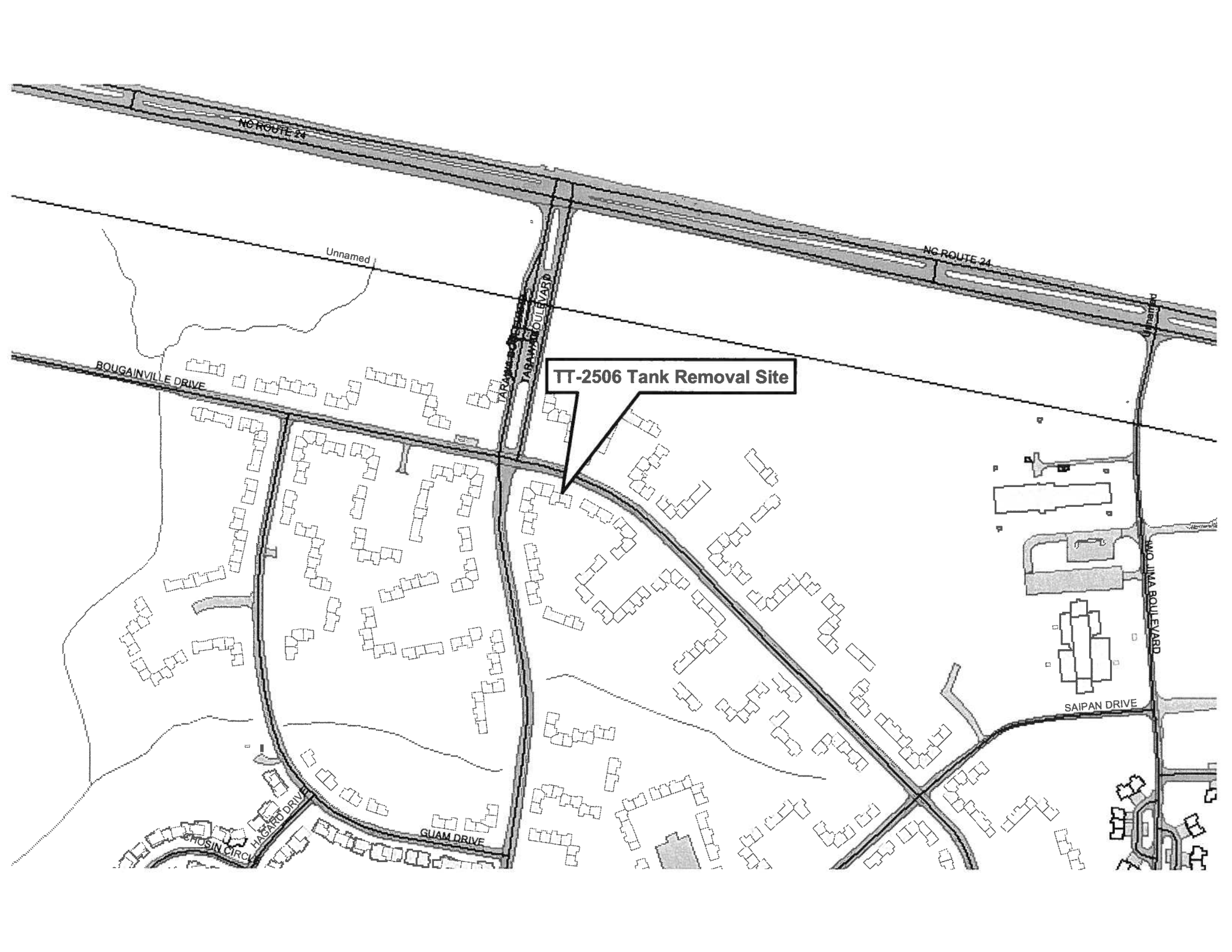
Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)

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



NG ROUTE 24

Unnamed

NG ROUTE 24

BOUGAINVILLE DRIVE

TT-2506 Tank Removal Site

TAPAWANG BOULEVARD

WOL JIMA BOULEVARD

SAIPAN DRIVE

GUAM DRIVE

CHOSIN CIRCU

HAGARD DRIVE

APPENDIX C

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				II. LOCATION OF TANKS			
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Commanding Officer Marine Corps Base				Facility Name or Company Tarawa Terrace Housing			
Street Address PSC 20004				Facility ID # (If known) N/A			
City MCB Camp Lejeune		County Onslow		Street Address TT-2506 Tarawa Terrace Blvd			
State NC		Zip Code 28542-0004		City MCB Camp Lejeune		County Onslow	Zip Code 28542
Phone Number 910-451-5068				Phone Number None			

III. CONTACT PERSONNEL

Contact for Facility: Bruce Markwick		Job Title: Environmental Protection Specialist		Phone. No: 910-451-9660	
Closure Contractor Name: Rob Finley		Closure Contractor Company: TMS		Address: Laydown Area-Gas House Rd	
Primary Consultant Name: Michael E. Mason, PE		Primary Consultant Company: Catlin		Address: 220 Old Dairy Rd Wilmington, NC	
				Phone. No: 910-451-5861	

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

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

VII. EXCAVATION CONDITION

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	12/15/10 12/15/09 <i>(DOC)</i>	See Above	☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

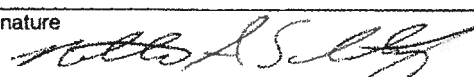
* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

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



Date Signed
1/19/2010

APPENDIX D

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

January 11, 2010

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

RE: Project: TT-2 Tank Yank
Pace Project No.: 9259999

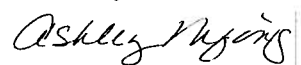
Dear Rob Finley:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2009. 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,



Ashley Nifong

ashley.nifong@pacelabs.com
Project Manager

Enclosures

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

REPORT OF LABORATORY ANALYSIS

Page 1 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Charlotte Certification IDs

Connecticut Certification #: PH-0104
9800 Kinsey Ave. - Ste 100 Huntersville, NC 28078
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Florida/NELAP Certification #: E87627

REPORT OF LABORATORY ANALYSIS

Page 2 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9259999001	TT-2506-1	EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
9259999002	TT-2506-2	ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
9259999003	TT-2506-3	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999004	TT-2506-4	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
9259999005	TT-2506-B-10.8	EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
9259999006	TT-2540-1	MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9259999007	TT-2540-2	EPA 8015 Modified	RES	2	PASI-C

REPORT OF LABORATORY ANALYSIS

Page 3 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9259999008	TT-2540-3	MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
9259999009	TT-2540-4	ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999010	TT-2540-B-6	EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
9259999011	TT-2077A-1-9	MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
9259999012	TT-2077A-2-9	ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999013	TT-2077A-3-9	MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

REPORT OF LABORATORY ANALYSIS

Page 4 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9259999014	TT-2077A-B-12	EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9259999015	TT-2125-1	EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
9259999016	TT-2125-2	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
9259999017	TT-2125-3	EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9259999018	TT-2125-4	EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		EPA 8270	PPM	74	PASI-C
9259999019	TT-2125-B-7	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C

REPORT OF LABORATORY ANALYSIS

Page 5 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9259999020	TT-2117-1	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999021	TT-2117-2	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999022	TT-2117-3	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999023	TT-2117-4	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999024	TT-2117-B-8	EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		MADEP EPH	CAH	7	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
9259999025	TT-Stockpile #6	EPA 8270	CMP	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	DHW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

REPORT OF LABORATORY ANALYSIS

Page 6 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2506-1 **Lab ID:** 9259999001 **Collected:** 12/15/09 11:10 **Received:** 12/21/09 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	12/22/09 15:15	12/22/09 21:09	68334-30-5	
n-Pentacosane (S)	62	%	50-135	1	12/22/09 15:15	12/22/09 21:09	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND	mg/kg	12.3	1	12/22/09 11:30	12/24/09 01:28		
Aliphatic (C19-C36)	ND	mg/kg	12.3	1	12/22/09 11:30	12/24/09 01:28		
Aromatic (C11-C22)	ND	mg/kg	12.3	1	12/22/09 11:30	12/24/09 01:28		
Nonatriacontane (S)	86	%	40-140	1	12/22/09 11:30	12/24/09 01:28	7194-86-7	
o-Terphenyl (S)	75	%	40-140	1	12/22/09 11:30	12/24/09 01:28	84-15-1	
2-Fluorobiphenyl (S)	91	%	40-140	1	12/22/09 11:30	12/24/09 01:28	321-60-8	
2-Bromonaphthalene (S)	92	%	40-140	1	12/22/09 11:30	12/24/09 01:28	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.5	1	12/28/09 17:00	12/30/09 00:45	8006-61-9	H1
4-Bromofluorobenzene (S)	127	%	50-135	1	12/28/09 17:00	12/30/09 00:45	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	83-32-9	
Acenaphthylene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	208-96-8	
Aniline	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	62-53-3	
Anthracene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	207-08-9	
Benzoic Acid	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	65-85-0	
Benzyl alcohol	ND	ug/kg	812	1	12/23/09 09:10	12/29/09 19:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	812	1	12/23/09 09:10	12/29/09 19:41	59-50-7	
4-Chloroaniline	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	91-58-7	
2-Chlorophenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	7005-72-3	
Chrysene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	53-70-3	
Dibenzofuran	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 7 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2506-1 Lab ID: 9259999001 Collected: 12/15/09 11:10 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	120-83-2	
Diethylphthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	105-67-9	
Dimethylphthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	812	1	12/23/09 09:10	12/29/09 19:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	117-81-7	
Fluoranthene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	206-44-0	
Fluorene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	77-47-4	
Hexachloroethane	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	193-39-5	
Isophorone	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	78-59-1	
1-Methylnaphthalene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	90-12-0	
2-Methylnaphthalene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41		
Naphthalene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	91-20-3	
2-Nitroaniline	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	88-74-4	
3-Nitroaniline	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	99-09-2	
4-Nitroaniline	ND	ug/kg	812	1	12/23/09 09:10	12/29/09 19:41	100-01-6	
Nitrobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	98-95-3	
2-Nitrophenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	88-75-5	
4-Nitrophenol	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	86-30-6	
Pentachlorophenol	ND	ug/kg	2030	1	12/23/09 09:10	12/29/09 19:41	87-86-5	
Phenanthrene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	85-01-8	
Phenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	108-95-2	
Pyrene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	1	12/23/09 09:10	12/29/09 19:41	88-06-2	
Nitrobenzene-d5 (S)	51 %		30-150	1	12/23/09 09:10	12/29/09 19:41	4165-60-0	
2-Fluorobiphenyl (S)	43 %		46-120	1	12/23/09 09:10	12/29/09 19:41	321-60-8	SO
Terphenyl-d14 (S)	45 %		38-108	1	12/23/09 09:10	12/29/09 19:41	1718-51-0	
Phenol-d6 (S)	52 %		35-120	1	12/23/09 09:10	12/29/09 19:41	13127-88-3	
2-Fluorophenol (S)	49 %		24-120	1	12/23/09 09:10	12/29/09 19:41	367-12-4	
2,4,6-Tribromophenol (S)	59 %		44-136	1	12/23/09 09:10	12/29/09 19:41	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 8 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2506-1 Lab ID: 9259999001 Collected: 12/15/09 11:10 Received: 12/21/09 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						
Acetone	ND	ug/kg	91.7	1		12/28/09 00:27	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/28/09 00:27	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/28/09 00:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/28/09 00:27	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/28/09 00:27	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		12/28/09 00:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.7	1		12/28/09 00:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/28/09 00:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		12/28/09 00:27	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/28/09 00:27	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		12/28/09 00:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/28/09 00:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/28/09 00:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/28/09 00:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/28/09 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/28/09 00:27	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/28/09 00:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		12/28/09 00:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/28/09 00:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/28/09 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/28/09 00:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/28/09 00:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/28/09 00:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/28/09 00:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/28/09 00:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/28/09 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/28/09 00:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/28/09 00:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/28/09 00:27	87-68-3	
2-Hexanone	ND	ug/kg	45.8	1		12/28/09 00:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/28/09 00:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/28/09 00:27	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		12/28/09 00:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.8	1		12/28/09 00:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/28/09 00:27	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 9 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2506-1 Lab ID: 9259999001 Collected: 12/15/09 11:10 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	4.6	1		12/28/09 00:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/28/09 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/28/09 00:27	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/28/09 00:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/28/09 00:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/28/09 00:27	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/28/09 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/28/09 00:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/28/09 00:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/28/09 00:27	108-67-8	
Vinyl acetate	ND	ug/kg	45.8	1		12/28/09 00:27	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		12/28/09 00:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/28/09 00:27	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		12/28/09 00:27	1330-20-7	
o-Xylene	ND	ug/kg	4.6	1		12/28/09 00:27	95-47-6	
Dibromofluoromethane (S)	117 %		79-116	1		12/28/09 00:27	1868-53-7	S6
Toluene-d8 (S)	101 %		88-110	1		12/28/09 00:27	2037-26-5	
4-Bromofluorobenzene (S)	100 %		74-115	1		12/28/09 00:27	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		69-121	1		12/28/09 00:27	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	18.7 %	0.10	1	12/24/09 12:09
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-2 **Lab ID:** 9259999002 **Collected:** 12/15/09 10:30 **Received:** 12/21/09 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	12/22/09 15:15	12/22/09 21:09	68334-30-5	
n-Pentacosane (S)	80	%	50-135	1	12/22/09 15:15	12/22/09 21:09	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND	mg/kg	11.7	1	12/22/09 11:30	12/24/09 02:02		
Aliphatic (C19-C36)	ND	mg/kg	11.7	1	12/22/09 11:30	12/24/09 02:02		
Aromatic (C11-C22)	ND	mg/kg	11.7	1	12/22/09 11:30	12/24/09 02:02		
Nonatriacontane (S)	85	%	40-140	1	12/22/09 11:30	12/24/09 02:02	7194-86-7	
o-Terphenyl (S)	75	%	40-140	1	12/22/09 11:30	12/24/09 02:02	84-15-1	
2-Fluorobiphenyl (S)	90	%	40-140	1	12/22/09 11:30	12/24/09 02:02	321-60-8	
2-Bromonaphthalene (S)	90	%	40-140	1	12/22/09 11:30	12/24/09 02:02	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	4.9	1	12/28/09 17:00	12/30/09 00:21	8006-61-9	H1
4-Bromofluorobenzene (S)	111	%	50-135	1	12/28/09 17:00	12/30/09 00:21	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	83-32-9	
Acenaphthylene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	208-96-8	
Aniline	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	62-53-3	
Anthracene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	207-08-9	
Benzoic Acid	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	65-85-0	
Benzyl alcohol	ND	ug/kg	775	1	12/23/09 09:10	12/29/09 20:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	775	1	12/23/09 09:10	12/29/09 20:11	59-50-7	
4-Chloroaniline	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	91-58-7	
2-Chlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	7005-72-3	
Chrysene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	53-70-3	
Dibenzofuran	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 11 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-2 Lab ID: 9259999002 Collected: 12/15/09 10:30 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	120-83-2	
Diethylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	105-67-9	
Dimethylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	775	1	12/23/09 09:10	12/29/09 20:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	117-81-7	
Fluoranthene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	206-44-0	
Fluorene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	77-47-4	
Hexachloroethane	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	193-39-5	
Isophorone	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11		
Naphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	99-09-2	
4-Nitroaniline	ND	ug/kg	775	1	12/23/09 09:10	12/29/09 20:11	100-01-6	
Nitrobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	98-95-3	
2-Nitrophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 20:11	87-86-5	
Phenanthrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	85-01-8	
Phenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	108-95-2	
Pyrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 20:11	88-06-2	
Nitrobenzene-d5 (S)	55 %		30-150	1	12/23/09 09:10	12/29/09 20:11	4165-60-0	
2-Fluorobiphenyl (S)	46 %		46-120	1	12/23/09 09:10	12/29/09 20:11	321-60-8	
Terphenyl-d14 (S)	47 %		38-108	1	12/23/09 09:10	12/29/09 20:11	1718-51-0	
Phenol-d6 (S)	57 %		35-120	1	12/23/09 09:10	12/29/09 20:11	13127-88-3	
2-Fluorophenol (S)	53 %		24-120	1	12/23/09 09:10	12/29/09 20:11	367-12-4	
2,4,6-Tribromophenol (S)	59 %		44-136	1	12/23/09 09:10	12/29/09 20:11	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 12 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-2 Lab ID: 9259999002 Collected: 12/15/09 10:30 Received: 12/21/09 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						
Acetone	ND	ug/kg	80.3	1		12/27/09 15:46	67-64-1	
Benzene	ND	ug/kg	4.0	1		12/27/09 15:46	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		12/27/09 15:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		12/27/09 15:46	75-27-4	
Bromoform	ND	ug/kg	4.0	1		12/27/09 15:46	75-25-2	
Bromomethane	ND	ug/kg	8.0	1		12/27/09 15:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	80.3	1		12/27/09 15:46	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		12/27/09 15:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	108-90-7	
Chloroethane	ND	ug/kg	8.0	1		12/27/09 15:46	75-00-3	
Chloroform	ND	ug/kg	4.0	1		12/27/09 15:46	67-66-3	
Chloromethane	ND	ug/kg	8.0	1		12/27/09 15:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		12/27/09 15:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		12/27/09 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		12/27/09 15:46	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		12/27/09 15:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		12/27/09 15:46	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		12/27/09 15:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.0	1		12/27/09 15:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 15:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 15:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 15:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 15:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 15:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 15:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 15:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 15:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		12/27/09 15:46	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		12/27/09 15:46	87-68-3	
2-Hexanone	ND	ug/kg	40.2	1		12/27/09 15:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		12/27/09 15:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		12/27/09 15:46	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		12/27/09 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.2	1		12/27/09 15:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		12/27/09 15:46	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 13 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-2 **Lab ID: 9259999002** Collected: 12/15/09 10:30 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	4.0	1		12/27/09 15:46	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	103-65-1	
Styrene	ND	ug/kg	4.0	1		12/27/09 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		12/27/09 15:46	127-18-4	
Toluene	ND	ug/kg	4.0	1		12/27/09 15:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		12/27/09 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		12/27/09 15:46	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		12/27/09 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		12/27/09 15:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		12/27/09 15:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		12/27/09 15:46	108-67-8	
Vinyl acetate	ND	ug/kg	40.2	1		12/27/09 15:46	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		12/27/09 15:46	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		12/27/09 15:46	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		12/27/09 15:46	1330-20-7	
o-Xylene	ND	ug/kg	4.0	1		12/27/09 15:46	95-47-6	
Dibromofluoromethane (S)	96 %		79-116	1		12/27/09 15:46	1868-53-7	
Toluene-d8 (S)	100 %		88-110	1		12/27/09 15:46	2037-26-5	
4-Bromofluorobenzene (S)	100 %		74-115	1		12/27/09 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		69-121	1		12/27/09 15:46	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.8 %		0.10	1		12/24/09 12:09		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-3 Lab ID: 9259999003 Collected: 12/15/09 11:02 Received: 12/21/09 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	12/22/09 15:15	12/22/09 21:38	68334-30-5	
n-Pentacosane (S)	71 %		50-135	1	12/22/09 15:15	12/22/09 21:38	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 02:36		
Aliphatic (C19-C36)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 02:36		
Aromatic (C11-C22)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 02:36		
Nonatriacontane (S)	84 %		40-140	1	12/22/09 11:30	12/29/09 20:40	7194-86-7	
o-Terphenyl (S)	66 %		40-140	1	12/22/09 11:30	12/24/09 02:36	84-15-1	
2-Fluorobiphenyl (S)	91 %		40-140	1	12/22/09 11:30	12/24/09 02:36	321-60-8	
2-Bromonaphthalene (S)	90 %		40-140	1	12/22/09 11:30	12/24/09 02:36	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.2	1	12/28/09 17:00	12/29/09 23:56	8006-61-9	
4-Bromofluorobenzene (S)	131 %		50-135	1	12/28/09 17:00	12/29/09 23:56	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	83-32-9	
Acenaphthylene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	208-96-8	
Aniline	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	62-53-3	
Anthracene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	120-12-7	
Benzo(a)anthracene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	56-55-3	
Benzo(a)pyrene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	207-08-9	
Benzoic Acid	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 20:40	65-85-0	
Benzyl alcohol	ND ug/kg		750	1	12/23/09 09:10	12/29/09 20:40	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	101-55-3	
Butylbenzylphthalate	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		750	1	12/23/09 09:10	12/29/09 20:40	59-50-7	
4-Chloroaniline	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 20:40	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	108-60-1	
2-Chloronaphthalene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	91-58-7	
2-Chlorophenol	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	7005-72-3	
Chrysene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	53-70-3	
Dibenzofuran	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		375	1	12/23/09 09:10	12/29/09 20:40	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 20:40	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 15 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-3 Lab ID: 9259999003 Collected: 12/15/09 11:02 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	120-83-2	
Diethylphthalate	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	105-67-9	
Dimethylphthalate	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	131-11-3	
Di-n-butylphthalate	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	750	1	12/23/09 09:10	12/29/09 20:40	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 20:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	606-20-2	
Di-n-octylphthalate	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	117-81-7	
Fluoranthene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	206-44-0	
Fluorene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	87-68-3	
Hexachlorobenzene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	77-47-4	
Hexachloroethane	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	193-39-5	
Isophorone	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	78-59-1	
1-Methylnaphthalene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	90-12-0	
2-Methylnaphthalene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40		
Naphthalene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	91-20-3	
2-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 20:40	88-74-4	
3-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 20:40	99-09-2	
4-Nitroaniline	ND	ug/kg	750	1	12/23/09 09:10	12/29/09 20:40	100-01-6	
Nitrobenzene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	98-95-3	
2-Nitrophenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	88-75-5	
4-Nitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 20:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	86-30-6	
Pentachlorophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 20:40	87-86-5	
Phenanthrene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	85-01-8	
Phenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	108-95-2	
Pyrene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	375	1	12/23/09 09:10	12/29/09 20:40	88-06-2	
Nitrobenzene-d5 (S)	43 %		30-150	1	12/23/09 09:10	12/29/09 20:40	4165-60-0	
2-Fluorobiphenyl (S)	38 %		46-120	1	12/23/09 09:10	12/29/09 20:40	321-60-8	SO
Terphenyl-d14 (S)	50 %		38-108	1	12/23/09 09:10	12/29/09 20:40	1718-51-0	
Phenol-d6 (S)	45 %		35-120	1	12/23/09 09:10	12/29/09 20:40	13127-88-3	
2-Fluorophenol (S)	40 %		24-120	1	12/23/09 09:10	12/29/09 20:40	367-12-4	
2,4,6-Tribromophenol (S)	57 %		44-136	1	12/23/09 09:10	12/29/09 20:40	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 16 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-3 Lab ID: 9259999003 Collected: 12/15/09 11:02 Received: 12/21/09 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						
Acetone	ND	ug/kg	86.1	1		12/24/09 22:46	67-64-1	
Benzene	ND	ug/kg	4.3	1		12/24/09 22:46	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/24/09 22:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/24/09 22:46	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/24/09 22:46	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		12/24/09 22:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.1	1		12/24/09 22:46	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/24/09 22:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		12/24/09 22:46	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/24/09 22:46	67-66-3	
Chloromethane	ND	ug/kg	8.6	1		12/24/09 22:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/24/09 22:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/24/09 22:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		12/24/09 22:46	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		12/24/09 22:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/24/09 22:46	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/24/09 22:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		12/24/09 22:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/24/09 22:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/24/09 22:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/24/09 22:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/24/09 22:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/24/09 22:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/24/09 22:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/24/09 22:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/24/09 22:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/24/09 22:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		12/24/09 22:46	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/24/09 22:46	87-68-3	
2-Hexanone	ND	ug/kg	43.1	1		12/24/09 22:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/24/09 22:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/24/09 22:46	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		12/24/09 22:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.1	1		12/24/09 22:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/24/09 22:46	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 17 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-3 **Lab ID:** 9259999003 **Collected:** 12/15/09 11:02 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.3	1		12/24/09 22:46	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/24/09 22:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/24/09 22:46	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/24/09 22:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/24/09 22:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/24/09 22:46	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/24/09 22:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/24/09 22:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/24/09 22:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/24/09 22:46	108-67-8	
Vinyl acetate	ND	ug/kg	43.1	1		12/24/09 22:46	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		12/24/09 22:46	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/24/09 22:46	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		12/24/09 22:46	1330-20-7	
o-Xylene	ND	ug/kg	4.3	1		12/24/09 22:46	95-47-6	
Dibromofluoromethane (S)	135 %		79-116	1		12/24/09 22:46	1868-53-7	S3
Toluene-d8 (S)	102 %		88-110	1		12/24/09 22:46	2037-26-5	
4-Bromofluorobenzene (S)	98 %		74-115	1		12/24/09 22:46	460-00-4	
1,2-Dichloroethane-d4 (S)	120 %		69-121	1		12/24/09 22:46	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.0 %		0.10	1		12/24/09 12:09		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-4 Lab ID: 9259999004 Collected: 12/15/09 10:25 Received: 12/21/09 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	12/22/09 15:15	12/22/09 21:38	68334-30-5	
n-Pentacosane (S)	77 %		50-135	1	12/22/09 15:15	12/22/09 21:38	629-99-2	
MADEP EPH NC Soli Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.8	1	12/22/09 11:30	12/24/09 03:10		
Aliphatic (C19-C36)	ND mg/kg		11.8	1	12/22/09 11:30	12/24/09 03:10		
Aromatic (C11-C22)	ND mg/kg		11.8	1	12/22/09 11:30	12/24/09 03:10		
Nonatriacontane (S)	92 %		40-140	1	12/22/09 11:30	12/24/09 03:10	7194-86-7	
o-Terphenyl (S)	78 %		40-140	1	12/22/09 11:30	12/24/09 03:10	84-15-1	
2-Fluorobiphenyl (S)	92 %		40-140	1	12/22/09 11:30	12/24/09 03:10	321-60-8	
2-Bromonaphthalene (S)	92 %		40-140	1	12/22/09 11:30	12/24/09 03:10	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.2	1	12/28/09 17:00	12/29/09 23:31	8006-61-9	
4-Bromofluorobenzene (S)	144 %		50-135	1	12/28/09 17:00	12/29/09 23:31	460-00-4	S3
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	83-32-9	
Acenaphthylene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	208-96-8	
Aniline	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	62-53-3	
Anthracene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	120-12-7	
Benzo(a)anthracene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	56-55-3	
Benzo(a)pyrene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	207-08-9	
Benzoic Acid	ND ug/kg		1940	1	12/23/09 09:10	12/29/09 21:10	65-85-0	
Benzyl alcohol	ND ug/kg		776	1	12/23/09 09:10	12/29/09 21:10	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	101-55-3	
Butylbenzylphthalate	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		776	1	12/23/09 09:10	12/29/09 21:10	59-50-7	
4-Chloroaniline	ND ug/kg		1940	1	12/23/09 09:10	12/29/09 21:10	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	108-60-1	
2-Chloronaphthalene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	91-58-7	
2-Chlorophenol	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	7005-72-3	
Chrysene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	53-70-3	
Dibenzofuran	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		388	1	12/23/09 09:10	12/29/09 21:10	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1940	1	12/23/09 09:10	12/29/09 21:10	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-4 Lab ID: 9259999004 Collected: 12/15/09 10:25 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	120-83-2	
Diethylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	105-67-9	
Dimethylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	131-11-3	
Di-n-butylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	776	1	12/23/09 09:10	12/29/09 21:10	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 21:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	606-20-2	
Di-n-octylphthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	117-81-7	
Fluoranthene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	206-44-0	
Fluorene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	87-68-3	
Hexachlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	77-47-4	
Hexachloroethane	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	193-39-5	
Isophorone	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	78-59-1	
1-Methylnaphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	90-12-0	
2-Methylnaphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10		
Naphthalene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	91-20-3	
2-Nitroaniline	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 21:10	88-74-4	
3-Nitroaniline	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 21:10	99-09-2	
4-Nitroaniline	ND	ug/kg	776	1	12/23/09 09:10	12/29/09 21:10	100-01-6	
Nitrobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	98-95-3	
2-Nitrophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	88-75-5	
4-Nitrophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 21:10	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	86-30-6	
Pentachlorophenol	ND	ug/kg	1940	1	12/23/09 09:10	12/29/09 21:10	87-86-5	
Phenanthrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	85-01-8	
Phenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	108-95-2	
Pyrene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	388	1	12/23/09 09:10	12/29/09 21:10	88-06-2	
Nitrobenzene-d5 (S)	52 %		30-150	1	12/23/09 09:10	12/29/09 21:10	4165-60-0	
2-Fluorobiphenyl (S)	44 %		46-120	1	12/23/09 09:10	12/29/09 21:10	321-60-8	SO
Terphenyl-d14 (S)	47 %		38-108	1	12/23/09 09:10	12/29/09 21:10	1718-51-0	
Phenol-d6 (S)	54 %		35-120	1	12/23/09 09:10	12/29/09 21:10	13127-88-3	
2-Fluorophenol (S)	50 %		24-120	1	12/23/09 09:10	12/29/09 21:10	367-12-4	
2,4,6-Tribromophenol (S)	57 %		44-136	1	12/23/09 09:10	12/29/09 21:10	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 20 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-4 Lab ID: 9259999004 Collected: 12/15/09 10:25 Received: 12/21/09 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						
Acetone	ND	ug/kg	78.1	1		12/24/09 23:04	67-64-1	
Benzene	ND	ug/kg	3.9	1		12/24/09 23:04	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		12/24/09 23:04	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		12/24/09 23:04	75-27-4	
Bromoform	ND	ug/kg	3.9	1		12/24/09 23:04	75-25-2	
Bromomethane	ND	ug/kg	7.8	1		12/24/09 23:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	78.1	1		12/24/09 23:04	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.9	1		12/24/09 23:04	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	108-90-7	
Chloroethane	ND	ug/kg	7.8	1		12/24/09 23:04	75-00-3	
Chloroform	ND	ug/kg	3.9	1		12/24/09 23:04	67-66-3	
Chloromethane	ND	ug/kg	7.8	1		12/24/09 23:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		12/24/09 23:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		12/24/09 23:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.9	1		12/24/09 23:04	96-12-8	
Dibromochloromethane	ND	ug/kg	3.9	1		12/24/09 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		12/24/09 23:04	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		12/24/09 23:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.8	1		12/24/09 23:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		12/24/09 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/24/09 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/24/09 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		12/24/09 23:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		12/24/09 23:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		12/24/09 23:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		12/24/09 23:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/24/09 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/24/09 23:04	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.9	1		12/24/09 23:04	108-20-3	
Ethylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		12/24/09 23:04	87-68-3	
2-Hexanone	ND	ug/kg	39.0	1		12/24/09 23:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		12/24/09 23:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		12/24/09 23:04	99-87-6	
Methylene Chloride	ND	ug/kg	15.6	1		12/24/09 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.0	1		12/24/09 23:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		12/24/09 23:04	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 21 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-4 Lab ID: 9259999004 Collected: 12/15/09 10:25 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	3.9	1		12/24/09 23:04	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	103-65-1	
Styrene	ND	ug/kg	3.9	1		12/24/09 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		12/24/09 23:04	127-18-4	
Toluene	ND	ug/kg	3.9	1		12/24/09 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		12/24/09 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		12/24/09 23:04	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		12/24/09 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		12/24/09 23:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		12/24/09 23:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		12/24/09 23:04	108-67-8	
Vinyl acetate	ND	ug/kg	39.0	1		12/24/09 23:04	108-05-4	
Vinyl chloride	ND	ug/kg	7.8	1		12/24/09 23:04	75-01-4	
Xylene (Total)	ND	ug/kg	7.8	1		12/24/09 23:04	1330-20-7	
m&p-Xylene	ND	ug/kg	7.8	1		12/24/09 23:04	1330-20-7	
o-Xylene	ND	ug/kg	3.9	1		12/24/09 23:04	95-47-6	
Dibromofluoromethane (S)	130	%	79-116	1		12/24/09 23:04	1868-53-7	S3
Toluene-d8 (S)	101	%	88-110	1		12/24/09 23:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	74-115	1		12/24/09 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	69-121	1		12/24/09 23:04	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	14.9 %	0.10	1	12/24/09 12:10
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-B-10.8 Lab ID: 9259999005 Collected: 12/15/09 15:45 Received: 12/21/09 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	34.3 mg/kg		6.0	1	12/22/09 15:15	12/22/09 22:07	68334-30-5	
n-Pentacosane (S)	65 %		50-135	1	12/22/09 15:15	12/22/09 22:07	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	158 mg/kg		60.4	5	12/22/09 11:30	12/29/09 12:30		
Aliphatic (C19-C36)	ND mg/kg		60.4	5	12/22/09 11:30	12/29/09 12:30		
Aromatic (C11-C22)	72.5 mg/kg		12.1	1	12/22/09 11:30	12/24/09 03:44		
Nonatriacontane (S)	0 %		40-140	5	12/22/09 11:30	12/29/09 12:30	7194-86-7	S4
o-Terphenyl (S)	103 %		40-140	1	12/22/09 11:30	12/24/09 03:44	84-15-1	
2-Fluorobiphenyl (S)	121 %		40-140	1	12/22/09 11:30	12/24/09 03:44	321-60-8	
2-Bromonaphthalene (S)	178 %		40-140	1	12/22/09 11:30	12/24/09 03:44	580-13-2	S5
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	7.9 mg/kg		5.1	1	12/28/09 17:00	12/29/09 23:06	8006-61-9	
4-Bromofluorobenzene (S)	137 %		50-135	1	12/28/09 17:00	12/29/09 23:06	460-00-4	S5
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	83-32-9	
Acenaphthylene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	208-96-8	
Aniline	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	62-53-3	
Anthracene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	207-08-9	
Benzoic Acid	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 14:11	65-85-0	
Benzyl alcohol	ND ug/kg		797	1	12/31/09 10:20	01/07/10 14:11	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	101-55-3	
Butylbenzylphthalate	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		797	1	12/31/09 10:20	01/07/10 14:11	59-50-7	
4-Chloroaniline	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 14:11	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	108-60-1	
2-Chloronaphthalene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	91-58-7	
2-Chlorophenol	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	7005-72-3	
Chrysene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	53-70-3	
Dibenzofuran	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		399	1	12/31/09 10:20	01/07/10 14:11	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 14:11	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 23 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-B-10.8 Lab ID: 9259999005 Collected: 12/15/09 15:45 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	120-83-2	
Diethylphthalate	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	105-67-9	
Dimethylphthalate	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	797	1	12/31/09 10:20	01/07/10 14:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 14:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	117-81-7	
Fluoranthene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	206-44-0	
Fluorene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	77-47-4	
Hexachloroethane	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	193-39-5	
Isophorone	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11		
Naphthalene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 14:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 14:11	99-09-2	
4-Nitroaniline	ND	ug/kg	797	1	12/31/09 10:20	01/07/10 14:11	100-01-6	
Nitrobenzene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	98-95-3	
2-Nitrophenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 14:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 14:11	87-86-5	
Phenanthrene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	85-01-8	
Phenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	108-95-2	
Pyrene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	399	1	12/31/09 10:20	01/07/10 14:11	88-06-2	
Nitrobenzene-d5 (S)	75 %		30-150	1	12/31/09 10:20	01/07/10 14:11	4165-60-0	H4
2-Fluorobiphenyl (S)	71 %		46-120	1	12/31/09 10:20	01/07/10 14:11	321-60-8	
Terphenyl-d14 (S)	69 %		38-108	1	12/31/09 10:20	01/07/10 14:11	1718-51-0	
Phenol-d6 (S)	72 %		35-120	1	12/31/09 10:20	01/07/10 14:11	13127-88-3	
2-Fluorophenol (S)	66 %		24-120	1	12/31/09 10:20	01/07/10 14:11	367-12-4	
2,4,6-Tribromophenol (S)	111 %		44-136	1	12/31/09 10:20	01/07/10 14:11	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 24 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-B-10.8 Lab ID: 9259999005 Collected: 12/15/09 15:45 Received: 12/21/09 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						
Acetone	ND	ug/kg	8190	100		12/25/09 07:33	67-64-1	
Benzene	ND	ug/kg	410	100		12/25/09 07:33	71-43-2	
Bromobenzene	ND	ug/kg	410	100		12/25/09 07:33	108-86-1	
Bromochloromethane	ND	ug/kg	410	100		12/25/09 07:33	74-97-5	
Bromodichloromethane	ND	ug/kg	410	100		12/25/09 07:33	75-27-4	
Bromoform	ND	ug/kg	410	100		12/25/09 07:33	75-25-2	
Bromomethane	ND	ug/kg	819	100		12/25/09 07:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8190	100		12/25/09 07:33	78-93-3	
n-Butylbenzene	ND	ug/kg	410	100		12/25/09 07:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	410	100		12/25/09 07:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	410	100		12/25/09 07:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	410	100		12/25/09 07:33	56-23-5	
Chlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	108-90-7	
Chloroethane	ND	ug/kg	819	100		12/25/09 07:33	75-00-3	
Chloroform	ND	ug/kg	410	100		12/25/09 07:33	67-66-3	
Chloromethane	ND	ug/kg	819	100		12/25/09 07:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	410	100		12/25/09 07:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	410	100		12/25/09 07:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	410	100		12/25/09 07:33	96-12-8	
Dibromochloromethane	ND	ug/kg	410	100		12/25/09 07:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	410	100		12/25/09 07:33	106-93-4	
Dibromomethane	ND	ug/kg	410	100		12/25/09 07:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	819	100		12/25/09 07:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	410	100		12/25/09 07:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	410	100		12/25/09 07:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	410	100		12/25/09 07:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	410	100		12/25/09 07:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	410	100		12/25/09 07:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	410	100		12/25/09 07:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	410	100		12/25/09 07:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	410	100		12/25/09 07:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	410	100		12/25/09 07:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	410	100		12/25/09 07:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	410	100		12/25/09 07:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	410	100		12/25/09 07:33	108-20-3	
Ethylbenzene	ND	ug/kg	410	100		12/25/09 07:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	410	100		12/25/09 07:33	87-68-3	
2-Hexanone	ND	ug/kg	4100	100		12/25/09 07:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	410	100		12/25/09 07:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	410	100		12/25/09 07:33	99-87-6	
Methylene Chloride	ND	ug/kg	1640	100		12/25/09 07:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	4100	100		12/25/09 07:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	410	100		12/25/09 07:33	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 25 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2506-B-10.8 **Lab ID:** 9259999005 **Collected:** 12/15/09 15:45 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	410	100		12/25/09 07:33	91-20-3	
n-Propylbenzene	ND	ug/kg	410	100		12/25/09 07:33	103-65-1	
Styrene	ND	ug/kg	410	100		12/25/09 07:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	410	100		12/25/09 07:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	410	100		12/25/09 07:33	79-34-5	
Tetrachloroethene	ND	ug/kg	410	100		12/25/09 07:33	127-18-4	
Toluene	ND	ug/kg	410	100		12/25/09 07:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	410	100		12/25/09 07:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	410	100		12/25/09 07:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	410	100		12/25/09 07:33	79-00-5	
Trichloroethene	ND	ug/kg	410	100		12/25/09 07:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	410	100		12/25/09 07:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	410	100		12/25/09 07:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	410	100		12/25/09 07:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	410	100		12/25/09 07:33	108-67-8	
Vinyl acetate	ND	ug/kg	4100	100		12/25/09 07:33	108-05-4	
Vinyl chloride	ND	ug/kg	819	100		12/25/09 07:33	75-01-4	
Xylene (Total)	ND	ug/kg	819	100		12/25/09 07:33	1330-20-7	
m&p-Xylene	ND	ug/kg	819	100		12/25/09 07:33	1330-20-7	
o-Xylene	ND	ug/kg	410	100		12/25/09 07:33	95-47-6	
Dibromofluoromethane (S)	137 %		79-116	100		12/25/09 07:33	1868-53-7	D3,S6
Toluene-d8 (S)	102 %		88-110	100		12/25/09 07:33	2037-26-5	
4-Bromofluorobenzene (S)	96 %		74-115	100		12/25/09 07:33	460-00-4	
1,2-Dichloroethane-d4 (S)	124 %		69-121	100		12/25/09 07:33	17060-07-0	S6

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	17.2 %	0.10	1	12/24/09 12:10
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-1 Lab ID: 9259999006 Collected: 12/16/09 06:45 Received: 12/21/09 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	12/22/09 15:15	12/22/09 22:07	68334-30-5	
n-Pentacosane (S)	78 %		50-135	1	12/22/09 15:15	12/22/09 22:07	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 04:18		
Aliphatic (C19-C36)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 04:18		
Aromatic (C11-C22)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 04:18		
Nonatriacontane (S)	80 %		40-140	1	12/22/09 11:30	12/24/09 04:18	7194-86-7	
o-Terphenyl (S)	71 %		40-140	1	12/22/09 11:30	12/24/09 04:18	84-15-1	
2-Fluorobiphenyl (S)	93 %		40-140	1	12/22/09 11:30	12/24/09 04:18	321-60-8	
2-Bromonaphthalene (S)	86 %		40-140	1	12/22/09 11:30	12/24/09 04:18	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	5.2 mg/kg		4.8	1	12/29/09 17:21	12/30/09 08:12	8006-61-9	
4-Bromofluorobenzene (S)	135 %		50-135	1	12/29/09 17:21	12/30/09 08:12	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	83-32-9	
Acenaphthylene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	208-96-8	
Aniline	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	62-53-3	
Anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	120-12-7	
Benzo(a)anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	56-55-3	
Benzo(a)pyrene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	207-08-9	
Benzoic Acid	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 22:09	65-85-0	
Benzyl alcohol	ND ug/kg		753	1	12/23/09 09:10	12/29/09 22:09	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	101-55-3	
Butylbenzylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		753	1	12/23/09 09:10	12/29/09 22:09	59-50-7	
4-Chloroaniline	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 22:09	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	108-60-1	
2-Chloronaphthalene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	91-58-7	
2-Chlorophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	7005-72-3	
Chrysene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	53-70-3	
Dibenzofuran	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 22:09	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 22:09	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 27 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-1 Lab ID: 9259999006 Collected: 12/16/09 06:45 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	120-83-2	
Diethylphthalate	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	105-67-9	
Dimethylphthalate	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	131-11-3	
Di-n-butylphthalate	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	753	1	12/23/09 09:10	12/29/09 22:09	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 22:09	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	606-20-2	
Di-n-octylphthalate	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	117-81-7	
Fluoranthene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	206-44-0	
Fluorene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	87-68-3	
Hexachlorobenzene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	77-47-4	
Hexachloroethane	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	193-39-5	
Isophorone	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	78-59-1	
1-Methylnaphthalene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	90-12-0	
2-Methylnaphthalene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09		
Naphthalene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	91-20-3	
2-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 22:09	88-74-4	
3-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 22:09	99-09-2	
4-Nitroaniline	ND	ug/kg	753	1	12/23/09 09:10	12/29/09 22:09	100-01-6	
Nitrobenzene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	98-95-3	
2-Nitrophenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	88-75-5	
4-Nitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 22:09	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	86-30-6	
Pentachlorophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 22:09	87-86-5	
Phenanthrene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	85-01-8	
Phenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	108-95-2	
Pyrene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	377	1	12/23/09 09:10	12/29/09 22:09	88-06-2	
Nitrobenzene-d5 (S)	48 %		30-150	1	12/23/09 09:10	12/29/09 22:09	4165-60-0	
2-Fluorobiphenyl (S)	42 %		46-120	1	12/23/09 09:10	12/29/09 22:09	321-60-8	SO
Terphenyl-d14 (S)	46 %		38-108	1	12/23/09 09:10	12/29/09 22:09	1718-51-0	
Phenol-d6 (S)	52 %		35-120	1	12/23/09 09:10	12/29/09 22:09	13127-88-3	
2-Fluorophenol (S)	47 %		24-120	1	12/23/09 09:10	12/29/09 22:09	367-12-4	
2,4,6-Tribromophenol (S)	54 %		44-136	1	12/23/09 09:10	12/29/09 22:09	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 28 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-1 Lab ID: 9259999006 Collected: 12/16/09 06:45 Received: 12/21/09 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						
Acetone	ND	ug/kg	75.9	1		12/24/09 23:22	67-64-1	
Benzene	ND	ug/kg	3.8	1		12/24/09 23:22	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		12/24/09 23:22	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		12/24/09 23:22	75-27-4	
Bromoform	ND	ug/kg	3.8	1		12/24/09 23:22	75-25-2	
Bromomethane	ND	ug/kg	7.6	1		12/24/09 23:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	75.9	1		12/24/09 23:22	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.8	1		12/24/09 23:22	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	108-90-7	
Chloroethane	ND	ug/kg	7.6	1		12/24/09 23:22	75-00-3	
Chloroform	ND	ug/kg	3.8	1		12/24/09 23:22	67-66-3	
Chloromethane	ND	ug/kg	7.6	1		12/24/09 23:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		12/24/09 23:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		12/24/09 23:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	1		12/24/09 23:22	96-12-8	
Dibromochloromethane	ND	ug/kg	3.8	1		12/24/09 23:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		12/24/09 23:22	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		12/24/09 23:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.6	1		12/24/09 23:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		12/24/09 23:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		12/24/09 23:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		12/24/09 23:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		12/24/09 23:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		12/24/09 23:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		12/24/09 23:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		12/24/09 23:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		12/24/09 23:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		12/24/09 23:22	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.8	1		12/24/09 23:22	108-20-3	
Ethylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		12/24/09 23:22	87-68-3	
2-Hexanone	ND	ug/kg	37.9	1		12/24/09 23:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		12/24/09 23:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		12/24/09 23:22	99-87-6	
Methylene Chloride	ND	ug/kg	15.2	1		12/24/09 23:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	37.9	1		12/24/09 23:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		12/24/09 23:22	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 29 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-1 **Lab ID:** 9259999006 **Collected:** 12/16/09 06:45 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	3.8	1		12/24/09 23:22	91-20-3	
n-Propylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	103-65-1	
Styrene	ND	ug/kg	3.8	1		12/24/09 23:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		12/24/09 23:22	127-18-4	
Toluene	ND	ug/kg	3.8	1		12/24/09 23:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		12/24/09 23:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		12/24/09 23:22	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		12/24/09 23:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		12/24/09 23:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		12/24/09 23:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		12/24/09 23:22	108-67-8	
Vinyl acetate	ND	ug/kg	37.9	1		12/24/09 23:22	108-05-4	
Vinyl chloride	ND	ug/kg	7.6	1		12/24/09 23:22	75-01-4	
Xylene (Total)	ND	ug/kg	7.6	1		12/24/09 23:22	1330-20-7	
m&p-Xylene	ND	ug/kg	7.6	1		12/24/09 23:22	1330-20-7	
o-Xylene	ND	ug/kg	3.8	1		12/24/09 23:22	95-47-6	
Dibromofluoromethane (S)	128 %		79-116	1		12/24/09 23:22	1868-53-7	S3
Toluene-d8 (S)	102 %		88-110	1		12/24/09 23:22	2037-26-5	
4-Bromofluorobenzene (S)	95 %		74-115	1		12/24/09 23:22	460-00-4	
1,2-Dichloroethane-d4 (S)	122 %		69-121	1		12/24/09 23:22	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.4 %	0.10	1	12/24/09 14:09
------------------	---------------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-2 **Lab ID: 9259999007** Collected: 12/16/09 11:47 Received: 12/21/09 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	12/22/09 15:15	12/22/09 23:04	68334-30-5	
n-Pentacosane (S)	56	%	50-135	1	12/22/09 15:15	12/22/09 23:04	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND	mg/kg	11.4	1	12/22/09 11:30	12/24/09 04:52		
Aliphatic (C19-C36)	ND	mg/kg	11.4	1	12/22/09 11:30	12/24/09 04:52		
Aromatic (C11-C22)	ND	mg/kg	11.4	1	12/22/09 11:30	12/24/09 04:52		
Nonatriacontane (S)	88	%	40-140	1	12/22/09 11:30	12/24/09 04:52	7194-86-7	
o-Terphenyl (S)	62	%	40-140	1	12/22/09 11:30	12/24/09 04:52	84-15-1	
2-Fluorobiphenyl (S)	82	%	40-140	1	12/22/09 11:30	12/24/09 04:52	321-60-8	
2-Bromonaphthalene (S)	89	%	40-140	1	12/22/09 11:30	12/24/09 04:52	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	4.5	1	12/29/09 17:21	12/30/09 08:37	8006-61-9	
4-Bromofluorobenzene (S)	113	%	50-135	1	12/29/09 17:21	12/30/09 08:37	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	83-32-9	
Acenaphthylene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	208-96-8	
Aniline	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	62-53-3	
Anthracene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	207-08-9	
Benzoic Acid	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	65-85-0	
Benzyl alcohol	ND	ug/kg	753	1	12/31/09 10:20	01/07/10 14:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	101-55-3	
Butylbenzylphthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	753	1	12/31/09 10:20	01/07/10 14:41	59-50-7	
4-Chloroaniline	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	108-60-1	
2-Chloronaphthalene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	91-58-7	
2-Chlorophenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	7005-72-3	
Chrysene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	53-70-3	
Dibenzofuran	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-2 Lab ID: 9259999007 Collected: 12/16/09 11:47 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	120-83-2	
Diethylphthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	105-67-9	
Dimethylphthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	753	1	12/31/09 10:20	01/07/10 14:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	117-81-7	
Fluoranthene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	206-44-0	
Fluorene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	77-47-4	
Hexachloroethane	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	193-39-5	
Isophorone	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	78-59-1	
1-Methylnaphthalene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	90-12-0	
2-Methylnaphthalene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41		
Naphthalene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	91-20-3	
2-Nitroaniline	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	88-74-4	
3-Nitroaniline	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	99-09-2	
4-Nitroaniline	ND	ug/kg	753	1	12/31/09 10:20	01/07/10 14:41	100-01-6	
Nitrobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	98-95-3	
2-Nitrophenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	88-75-5	
4-Nitrophenol	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	86-30-6	
Pentachlorophenol	ND	ug/kg	1880	1	12/31/09 10:20	01/07/10 14:41	87-86-5	
Phenanthrene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	85-01-8	
Phenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	108-95-2	
Pyrene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	376	1	12/31/09 10:20	01/07/10 14:41	88-06-2	
Nitrobenzene-d5 (S)	52 %		30-150	1	12/31/09 10:20	01/07/10 14:41	4165-60-0	H4
2-Fluorobiphenyl (S)	57 %		46-120	1	12/31/09 10:20	01/07/10 14:41	321-60-8	
Terphenyl-d14 (S)	70 %		38-108	1	12/31/09 10:20	01/07/10 14:41	1718-51-0	
Phenol-d6 (S)	48 %		35-120	1	12/31/09 10:20	01/07/10 14:41	13127-88-3	
2-Fluorophenol (S)	38 %		24-120	1	12/31/09 10:20	01/07/10 14:41	367-12-4	
2,4,6-Tribromophenol (S)	82 %		44-136	1	12/31/09 10:20	01/07/10 14:41	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 32 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-2 Lab ID: 9259999007 Collected: 12/16/09 11:47 Received: 12/21/09 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						
Acetone	ND	ug/kg	77.7	1		12/27/09 14:52	67-64-1	
Benzene	ND	ug/kg	3.9	1		12/27/09 14:52	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		12/27/09 14:52	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		12/27/09 14:52	75-27-4	
Bromoform	ND	ug/kg	3.9	1		12/27/09 14:52	75-25-2	
Bromomethane	ND	ug/kg	7.8	1		12/27/09 14:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	77.7	1		12/27/09 14:52	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.9	1		12/27/09 14:52	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	108-90-7	
Chloroethane	ND	ug/kg	7.8	1		12/27/09 14:52	75-00-3	
Chloroform	ND	ug/kg	3.9	1		12/27/09 14:52	67-66-3	
Chloromethane	ND	ug/kg	7.8	1		12/27/09 14:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		12/27/09 14:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		12/27/09 14:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.9	1		12/27/09 14:52	96-12-8	
Dibromochloromethane	ND	ug/kg	3.9	1		12/27/09 14:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		12/27/09 14:52	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		12/27/09 14:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.8	1		12/27/09 14:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		12/27/09 14:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/27/09 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/27/09 14:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		12/27/09 14:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		12/27/09 14:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		12/27/09 14:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		12/27/09 14:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/27/09 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/27/09 14:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.9	1		12/27/09 14:52	108-20-3	
Ethylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		12/27/09 14:52	87-68-3	
2-Hexanone	ND	ug/kg	38.8	1		12/27/09 14:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		12/27/09 14:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		12/27/09 14:52	99-87-6	
Methylene Chloride	ND	ug/kg	15.5	1		12/27/09 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	38.8	1		12/27/09 14:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		12/27/09 14:52	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 33 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-2 Lab ID: 9259999007 Collected: 12/16/09 11:47 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	3.9	1		12/27/09 14:52	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	103-65-1	
Styrene	ND	ug/kg	3.9	1		12/27/09 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		12/27/09 14:52	127-18-4	
Toluene	ND	ug/kg	3.9	1		12/27/09 14:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		12/27/09 14:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		12/27/09 14:52	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		12/27/09 14:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		12/27/09 14:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		12/27/09 14:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		12/27/09 14:52	108-67-8	
Vinyl acetate	ND	ug/kg	38.8	1		12/27/09 14:52	108-05-4	
Vinyl chloride	ND	ug/kg	7.8	1		12/27/09 14:52	75-01-4	
Xylene (Total)	ND	ug/kg	7.8	1		12/27/09 14:52	1330-20-7	
m&p-Xylene	ND	ug/kg	7.8	1		12/27/09 14:52	1330-20-7	
o-Xylene	ND	ug/kg	3.9	1		12/27/09 14:52	95-47-6	
Dibromofluoromethane (S)	95 %		79-116	1		12/27/09 14:52	1868-53-7	
Toluene-d8 (S)	100 %		88-110	1		12/27/09 14:52	2037-26-5	
4-Bromofluorobenzene (S)	101 %		74-115	1		12/27/09 14:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		69-121	1		12/27/09 14:52	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.3 %		0.10	1		12/24/09 14:09		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-3 Lab ID: 9259999008 Collected: 12/16/09 07:10 Received: 12/21/09 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	12/22/09 15:15	12/22/09 23:04	68334-30-5	
n-Pentacosane (S)	71 %		50-135	1	12/22/09 15:15	12/22/09 23:04	629-99-2	

MADEP EPH NC Soil

Analytical Method: MADEP EPH Preparation Method: MADEP EPH

Aliphatic (C09-C18)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:25		
Aliphatic (C19-C36)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:25		
Aromatic (C11-C22)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:25		
Nonatriacontane (S)	84 %		40-140	1	12/22/09 11:30	12/24/09 05:25	7194-86-7	
o-Terphenyl (S)	82 %		40-140	1	12/22/09 11:30	12/24/09 05:25	84-15-1	
2-Fluorobiphenyl (S)	94 %		40-140	1	12/22/09 11:30	12/24/09 05:25	321-60-8	
2-Bromonaphthalene (S)	95 %		40-140	1	12/22/09 11:30	12/24/09 05:25	580-13-2	

Gasoline Range Organics

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

Gasoline Range Organics	ND mg/kg		4.9	1	12/29/09 17:21	12/30/09 09:01	8006-61-9	
4-Bromofluorobenzene (S)	111 %		50-135	1	12/29/09 17:21	12/30/09 09:01	460-00-4	

8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Acenaphthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	83-32-9	
Acenaphthylene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	208-96-8	
Aniline	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	62-53-3	
Anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	120-12-7	
Benzo(a)anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	56-55-3	
Benzo(a)pyrene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	207-08-9	
Benzoic Acid	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	65-85-0	
Benzyl alcohol	ND ug/kg		755	1	12/23/09 09:10	12/29/09 23:09	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	101-55-3	
Butylbenzylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		755	1	12/23/09 09:10	12/29/09 23:09	59-50-7	
4-Chloroaniline	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	108-60-1	
2-Chloronaphthalene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	91-58-7	
2-Chlorophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	7005-72-3	
Chrysene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	53-70-3	
Dibenzofuran	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-3 Lab ID: 9259999008 Collected: 12/16/09 07:10 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	120-83-2	
Diethylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	84-66-2	
2,4-Dimethylphenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	105-67-9	
Dimethylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	131-11-3	
Di-n-butylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		755	1	12/23/09 09:10	12/29/09 23:09	534-52-1	
2,4-Dinitrophenol	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	606-20-2	
Di-n-octylphthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	117-81-7	
Fluoranthene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	206-44-0	
Fluorene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	87-68-3	
Hexachlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	77-47-4	
Hexachloroethane	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	193-39-5	
Isophorone	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	78-59-1	
1-Methylnaphthalene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	90-12-0	
2-Methylnaphthalene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09		
Naphthalene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	91-20-3	
2-Nitroaniline	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	88-74-4	
3-Nitroaniline	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	99-09-2	
4-Nitroaniline	ND ug/kg		755	1	12/23/09 09:10	12/29/09 23:09	100-01-6	
Nitrobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	98-95-3	
2-Nitrophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	88-75-5	
4-Nitrophenol	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	86-30-6	
Pentachlorophenol	ND ug/kg		1890	1	12/23/09 09:10	12/29/09 23:09	87-86-5	
Phenanthrene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	85-01-8	
Phenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	108-95-2	
Pyrene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		377	1	12/23/09 09:10	12/29/09 23:09	88-06-2	
Nitrobenzene-d5 (S)	50 %		30-150	1	12/23/09 09:10	12/29/09 23:09	4165-60-0	
2-Fluorobiphenyl (S)	46 %		46-120	1	12/23/09 09:10	12/29/09 23:09	321-60-8	
Terphenyl-d14 (S)	61 %		38-108	1	12/23/09 09:10	12/29/09 23:09	1718-51-0	
Phenol-d6 (S)	54 %		35-120	1	12/23/09 09:10	12/29/09 23:09	13127-88-3	
2-Fluorophenol (S)	48 %		24-120	1	12/23/09 09:10	12/29/09 23:09	367-12-4	
2,4,6-Tribromophenol (S)	81 %		44-136	1	12/23/09 09:10	12/29/09 23:09	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 36 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-3 Lab ID: 9259999008 Collected: 12/16/09 07:10 Received: 12/21/09 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						
Acetone	ND	ug/kg	92.7	1		12/24/09 23:58	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/24/09 23:58	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/24/09 23:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/24/09 23:58	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/24/09 23:58	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		12/24/09 23:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.7	1		12/24/09 23:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/24/09 23:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		12/24/09 23:58	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/24/09 23:58	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		12/24/09 23:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/24/09 23:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/24/09 23:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/24/09 23:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/24/09 23:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/24/09 23:58	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/24/09 23:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		12/24/09 23:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/24/09 23:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/24/09 23:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/24/09 23:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/24/09 23:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/24/09 23:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/24/09 23:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/24/09 23:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/24/09 23:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/24/09 23:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/24/09 23:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/24/09 23:58	87-68-3	
2-Hexanone	ND	ug/kg	46.3	1		12/24/09 23:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/24/09 23:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/24/09 23:58	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		12/24/09 23:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.3	1		12/24/09 23:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/24/09 23:58	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 37 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-3 **Lab ID:** 9259999008 **Collected:** 12/16/09 07:10 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.6	1		12/24/09 23:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/24/09 23:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/24/09 23:58	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/24/09 23:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/24/09 23:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/24/09 23:58	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/24/09 23:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/24/09 23:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/24/09 23:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/24/09 23:58	108-67-8	
Vinyl acetate	ND	ug/kg	46.3	1		12/24/09 23:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		12/24/09 23:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		12/24/09 23:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		12/24/09 23:58	1330-20-7	
o-Xylene	ND	ug/kg	4.6	1		12/24/09 23:58	95-47-6	
Dibromofluoromethane (S)	119 %		79-116	1		12/24/09 23:58	1868-53-7	S3
Toluene-d8 (S)	102 %		88-110	1		12/24/09 23:58	2037-26-5	
4-Bromofluorobenzene (S)	97 %		74-115	1		12/24/09 23:58	460-00-4	
1,2-Dichloroethane-d4 (S)	126 %		69-121	1		12/24/09 23:58	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.5 %		0.10	1		12/24/09 14:10		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-4 Lab ID: 9259999009 Collected: 12/16/09 07:30 Received: 12/21/09 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	12/28/09 16:30	12/29/09 16:52	68334-30-5	
n-Pentacosane (S)	70 %		50-135	1	12/28/09 16:30	12/29/09 16:52	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:59		
Aliphatic (C19-C36)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:59		
Aromatic (C11-C22)	ND mg/kg		11.4	1	12/22/09 11:30	12/24/09 05:59		
Nonatriacontane (S)	81 %		40-140	1	12/22/09 11:30	12/24/09 05:59	7194-86-7	
o-Terphenyl (S)	83 %		40-140	1	12/22/09 11:30	12/24/09 05:59	84-15-1	
2-Fluorobiphenyl (S)	91 %		40-140	1	12/22/09 11:30	12/24/09 05:59	321-60-8	
2-Bromonaphthalene (S)	91 %		40-140	1	12/22/09 11:30	12/24/09 05:59	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		4.9	1	12/29/09 17:21	12/30/09 03:14	8006-61-9	
4-Bromofluorobenzene (S)	131 %		50-135	1	12/29/09 17:21	12/30/09 03:14	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	83-32-9	
Acenaphthylene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	208-96-8	
Aniline	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	62-53-3	
Anthracene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	120-12-7	
Benzo(a)anthracene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	56-55-3	
Benzo(a)pyrene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	207-08-9	
Benzoic Acid	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 23:38	65-85-0	
Benzyl alcohol	ND ug/kg		751	1	12/23/09 09:10	12/29/09 23:38	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	101-55-3	
Butylbenzylphthalate	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		751	1	12/23/09 09:10	12/29/09 23:38	59-50-7	
4-Chloroaniline	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 23:38	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	108-60-1	
2-Chloronaphthalene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	91-58-7	
2-Chlorophenol	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	7005-72-3	
Chrysene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	53-70-3	
Dibenzofuran	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		376	1	12/23/09 09:10	12/29/09 23:38	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1880	1	12/23/09 09:10	12/29/09 23:38	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 39 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-4 Lab ID: 9259999009 Collected: 12/16/09 07:30 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	120-83-2	
Diethylphthalate	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	105-67-9	
Dimethylphthalate	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	751	1	12/23/09 09:10	12/29/09 23:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 23:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	117-81-7	
Fluoranthene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	206-44-0	
Fluorene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	77-47-4	
Hexachloroethane	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	193-39-5	
Isophorone	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38		
Naphthalene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	91-20-3	
2-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 23:38	88-74-4	
3-Nitroaniline	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 23:38	99-09-2	
4-Nitroaniline	ND	ug/kg	751	1	12/23/09 09:10	12/29/09 23:38	100-01-6	
Nitrobenzene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	98-95-3	
2-Nitrophenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	88-75-5	
4-Nitrophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 23:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	86-30-6	
Pentachlorophenol	ND	ug/kg	1880	1	12/23/09 09:10	12/29/09 23:38	87-86-5	
Phenanthrene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	85-01-8	
Phenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	108-95-2	
Pyrene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	376	1	12/23/09 09:10	12/29/09 23:38	88-06-2	
Nitrobenzene-d5 (S)	40 %		30-150	1	12/23/09 09:10	12/29/09 23:38	4165-60-0	
2-Fluorobiphenyl (S)	36 %		46-120	1	12/23/09 09:10	12/29/09 23:38	321-60-8	S0
Terphenyl-d14 (S)	48 %		38-108	1	12/23/09 09:10	12/29/09 23:38	1718-51-0	
Phenol-d6 (S)	42 %		35-120	1	12/23/09 09:10	12/29/09 23:38	13127-88-3	
2-Fluorophenol (S)	38 %		24-120	1	12/23/09 09:10	12/29/09 23:38	367-12-4	
2,4,6-Tribromophenol (S)	57 %		44-136	1	12/23/09 09:10	12/29/09 23:38	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 40 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-4 Lab ID: 9259999009 Collected: 12/16/09 07:30 Received: 12/21/09 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						
Acetone	ND	ug/kg	80.3	1		12/25/09 00:17	67-64-1	
Benzene	ND	ug/kg	4.0	1		12/25/09 00:17	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		12/25/09 00:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		12/25/09 00:17	75-27-4	
Bromoform	ND	ug/kg	4.0	1		12/25/09 00:17	75-25-2	
Bromomethane	ND	ug/kg	8.0	1		12/25/09 00:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	80.3	1		12/25/09 00:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		12/25/09 00:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	108-90-7	
Chloroethane	ND	ug/kg	8.0	1		12/25/09 00:17	75-00-3	
Chloroform	ND	ug/kg	4.0	1		12/25/09 00:17	67-66-3	
Chloromethane	ND	ug/kg	8.0	1		12/25/09 00:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		12/25/09 00:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		12/25/09 00:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		12/25/09 00:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		12/25/09 00:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		12/25/09 00:17	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		12/25/09 00:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.0	1		12/25/09 00:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		12/25/09 00:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/25/09 00:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/25/09 00:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		12/25/09 00:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		12/25/09 00:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		12/25/09 00:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		12/25/09 00:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/25/09 00:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/25/09 00:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		12/25/09 00:17	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		12/25/09 00:17	87-68-3	
2-Hexanone	ND	ug/kg	40.1	1		12/25/09 00:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		12/25/09 00:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		12/25/09 00:17	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		12/25/09 00:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.1	1		12/25/09 00:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		12/25/09 00:17	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 41 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-4 **Lab ID:** 9259999009 **Collected:** 12/16/09 07:30 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.0	1		12/25/09 00:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	103-65-1	
Styrene	ND	ug/kg	4.0	1		12/25/09 00:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		12/25/09 00:17	127-18-4	
Toluene	ND	ug/kg	4.0	1		12/25/09 00:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		12/25/09 00:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		12/25/09 00:17	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		12/25/09 00:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		12/25/09 00:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		12/25/09 00:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		12/25/09 00:17	108-67-8	
Vinyl acetate	ND	ug/kg	40.1	1		12/25/09 00:17	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		12/25/09 00:17	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		12/25/09 00:17	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		12/25/09 00:17	1330-20-7	
o-Xylene	ND	ug/kg	4.0	1		12/25/09 00:17	95-47-6	
Dibromofluoromethane (S)	101 %		79-116	1		12/25/09 00:17	1868-53-7	
Toluene-d8 (S)	101 %		88-110	1		12/25/09 00:17	2037-26-5	
4-Bromofluorobenzene (S)	95 %		74-115	1		12/25/09 00:17	460-00-4	
1,2-Dichloroethane-d4 (S)	120 %		69-121	1		12/25/09 00:17	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.1 %		0.10	1		12/24/09 14:10		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-B-6 Lab ID: 9259999010 Collected: 12/16/09 07:40 Received: 12/21/09 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	12/28/09 16:30	12/29/09 16:52	68334-30-5	
n-Pentacosane (S)	64	%	50-135	1	12/28/09 16:30	12/29/09 16:52	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND	mg/kg	11.3	1	12/22/09 11:30	12/24/09 06:33		
Aliphatic (C19-C36)	ND	mg/kg	11.3	1	12/22/09 11:30	12/24/09 06:33		
Aromatic (C11-C22)	ND	mg/kg	11.3	1	12/22/09 11:30	12/24/09 06:33		
Nonatriacontane (S)	83	%	40-140	1	12/22/09 11:30	12/24/09 06:33	7194-86-7	
o-Terphenyl (S)	82	%	40-140	1	12/22/09 11:30	12/24/09 06:33	84-15-1	
2-Fluorobiphenyl (S)	93	%	40-140	1	12/22/09 11:30	12/24/09 06:33	321-60-8	
2-Bromonaphthalene (S)	92	%	40-140	1	12/22/09 11:30	12/24/09 06:33	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.5	1	12/29/09 15:21	12/30/09 01:08	8006-61-9	
4-Bromofluorobenzene (S)	109	%	50-135	1	12/29/09 15:21	12/30/09 01:08	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	83-32-9	
Acenaphthylene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	208-96-8	
Aniline	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	62-53-3	
Anthracene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	120-12-7	
Benzo(a)anthracene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	56-55-3	
Benzo(a)pyrene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	207-08-9	
Benzoic Acid	ND	ug/kg	1860	1	12/31/09 10:20	01/07/10 15:12	65-85-0	
Benzyl alcohol	ND	ug/kg	746	1	12/31/09 10:20	01/07/10 15:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	101-55-3	
Butylbenzylphthalate	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	746	1	12/31/09 10:20	01/07/10 15:12	59-50-7	
4-Chloroaniline	ND	ug/kg	1860	1	12/31/09 10:20	01/07/10 15:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	108-60-1	
2-Chloronaphthalene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	91-58-7	
2-Chlorophenol	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	7005-72-3	
Chrysene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	53-70-3	
Dibenzofuran	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	373	1	12/31/09 10:20	01/07/10 15:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1860	1	12/31/09 10:20	01/07/10 15:12	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 43 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-B-6 Lab ID: 9259999010 Collected: 12/16/09 07:40 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	120-83-2	
Diethylphthalate	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	84-66-2	
2,4-Dimethylphenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	105-67-9	
Dimethylphthalate	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	131-11-3	
Di-n-butylphthalate	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		746	1	12/31/09 10:20	01/07/10 15:12	534-52-1	
2,4-Dinitrophenol	ND ug/kg		1860	1	12/31/09 10:20	01/07/10 15:12	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	606-20-2	
Di-n-octylphthalate	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	117-81-7	
Fluoranthene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	206-44-0	
Fluorene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	87-68-3	
Hexachlorobenzene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	77-47-4	
Hexachloroethane	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	193-39-5	
Isophorone	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	78-59-1	
1-Methylnaphthalene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	90-12-0	
2-Methylnaphthalene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12		
Naphthalene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	91-20-3	
2-Nitroaniline	ND ug/kg		1860	1	12/31/09 10:20	01/07/10 15:12	88-74-4	
3-Nitroaniline	ND ug/kg		1860	1	12/31/09 10:20	01/07/10 15:12	99-09-2	
4-Nitroaniline	ND ug/kg		746	1	12/31/09 10:20	01/07/10 15:12	100-01-6	
Nitrobenzene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	98-95-3	
2-Nitrophenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	88-75-5	
4-Nitrophenol	ND ug/kg		1860	1	12/31/09 10:20	01/07/10 15:12	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	86-30-6	
Pentachlorophenol	ND ug/kg		1860	1	12/31/09 10:20	01/07/10 15:12	87-86-5	
Phenanthrene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	85-01-8	
Phenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	108-95-2	
Pyrene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		373	1	12/31/09 10:20	01/07/10 15:12	88-06-2	
Nitrobenzene-d5 (S)	68 %		30-150	1	12/31/09 10:20	01/07/10 15:12	4165-60-0	H4
2-Fluorobiphenyl (S)	64 %		46-120	1	12/31/09 10:20	01/07/10 15:12	321-60-8	
Terphenyl-d14 (S)	71 %		38-108	1	12/31/09 10:20	01/07/10 15:12	1718-51-0	
Phenol-d6 (S)	66 %		35-120	1	12/31/09 10:20	01/07/10 15:12	13127-88-3	
2-Fluorophenol (S)	62 %		24-120	1	12/31/09 10:20	01/07/10 15:12	367-12-4	
2,4,6-Tribromophenol (S)	85 %		44-136	1	12/31/09 10:20	01/07/10 15:12	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 44 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-B-6 Lab ID: 9259999010 Collected: 12/16/09 07:40 Received: 12/21/09 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						
Acetone	ND	ug/kg	86.8	1		12/25/09 00:35	67-64-1	
Benzene	ND	ug/kg	4.3	1		12/25/09 00:35	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/25/09 00:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/25/09 00:35	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/25/09 00:35	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		12/25/09 00:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.8	1		12/25/09 00:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/25/09 00:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		12/25/09 00:35	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/25/09 00:35	67-66-3	
Chloromethane	ND	ug/kg	8.7	1		12/25/09 00:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/25/09 00:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/25/09 00:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		12/25/09 00:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		12/25/09 00:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/25/09 00:35	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/25/09 00:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		12/25/09 00:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/25/09 00:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/25/09 00:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/25/09 00:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/25/09 00:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/25/09 00:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/25/09 00:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/25/09 00:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/25/09 00:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/25/09 00:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		12/25/09 00:35	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/25/09 00:35	87-68-3	
2-Hexanone	ND	ug/kg	43.4	1		12/25/09 00:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/25/09 00:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/25/09 00:35	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/25/09 00:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.4	1		12/25/09 00:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/25/09 00:35	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 45 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2540-B-6 **Lab ID:** 9259999010 **Collected:** 12/16/09 07:40 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.3	1		12/25/09 00:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/25/09 00:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/25/09 00:35	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/25/09 00:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/25/09 00:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/25/09 00:35	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/25/09 00:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/25/09 00:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/25/09 00:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/25/09 00:35	108-67-8	
Vinyl acetate	ND	ug/kg	43.4	1		12/25/09 00:35	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		12/25/09 00:35	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/25/09 00:35	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		12/25/09 00:35	1330-20-7	
o-Xylene	ND	ug/kg	4.3	1		12/25/09 00:35	95-47-6	
Dibromofluoromethane (S)	130	%	79-116	1		12/25/09 00:35	1868-53-7	S3
Toluene-d8 (S)	102	%	88-110	1		12/25/09 00:35	2037-26-5	
4-Bromofluorobenzene (S)	95	%	74-115	1		12/25/09 00:35	460-00-4	
1,2-Dichloroethane-d4 (S)	126	%	69-121	1		12/25/09 00:35	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	11.5 %	0.10	1	12/24/09 14:10
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-1-9 **Lab ID:** 9259999011 **Collected:** 12/18/09 10:22 **Received:** 12/21/09 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		6.0	1	12/28/09 16:30	12/29/09 17:21	68334-30-5	
n-Pentacosane (S)	88 %		50-135	1	12/28/09 16:30	12/29/09 17:21	629-99-2	

MADEP EPH NC Soil

Analytical Method: MADEP EPH Preparation Method: MADEP EPH

Aliphatic (C09-C18)	ND mg/kg		12.1	1	12/22/09 11:30	12/24/09 07:07		
Aliphatic (C19-C36)	ND mg/kg		12.1	1	12/22/09 11:30	12/24/09 07:07		
Aromatic (C11-C22)	ND mg/kg		12.1	1	12/22/09 11:30	12/24/09 07:07		
Nonatriacontane (S)	101 %		40-140	1	12/22/09 11:30	12/24/09 07:07	7194-86-7	
o-Terphenyl (S)	76 %		40-140	1	12/22/09 11:30	12/24/09 07:07	84-15-1	
2-Fluorobiphenyl (S)	83 %		40-140	1	12/22/09 11:30	12/24/09 07:07	321-60-8	
2-Bromonaphthalene (S)	84 %		40-140	1	12/22/09 11:30	12/24/09 07:07	580-13-2	

Gasoline Range Organics

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

Gasoline Range Organics	ND mg/kg		7.6	1	12/30/09 14:58	12/31/09 08:02	8006-61-9	
4-Bromofluorobenzene (S)	100 %		50-135	1	12/30/09 14:58	12/31/09 08:02	460-00-4	

8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Acenaphthene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	83-32-9	
Acenaphthylene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	208-96-8	
Aniline	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	62-53-3	
Anthracene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	120-12-7	
Benzo(a)anthracene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	56-55-3	
Benzo(a)pyrene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	207-08-9	
Benzoic Acid	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 16:32	65-85-0	
Benzyl alcohol	ND ug/kg		797	1	12/31/09 10:20	01/07/10 16:32	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	101-55-3	
Butylbenzylphthalate	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		797	1	12/31/09 10:20	01/07/10 16:32	59-50-7	
4-Chloroaniline	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 16:32	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	108-60-1	
2-Chloronaphthalene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	91-58-7	
2-Chlorophenol	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	7005-72-3	
Chrysene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	53-70-3	
Dibenzofuran	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		398	1	12/31/09 10:20	01/07/10 16:32	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1990	1	12/31/09 10:20	01/07/10 16:32	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-1-9 Lab ID: 9259999011 Collected: 12/18/09 10:22 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	120-83-2	
Diethylphthalate	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	105-67-9	
Dimethylphthalate	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	131-11-3	
Di-n-butylphthalate	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	797	1	12/31/09 10:20	01/07/10 16:32	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 16:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	606-20-2	
Di-n-octylphthalate	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	117-81-7	
Fluoranthene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	206-44-0	
Fluorene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	87-68-3	
Hexachlorobenzene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	77-47-4	
Hexachloroethane	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	193-39-5	
Isophorone	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	78-59-1	
1-Methylnaphthalene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32		
Naphthalene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	91-20-3	
2-Nitroaniline	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 16:32	88-74-4	
3-Nitroaniline	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 16:32	99-09-2	
4-Nitroaniline	ND	ug/kg	797	1	12/31/09 10:20	01/07/10 16:32	100-01-6	
Nitrobenzene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	98-95-3	
2-Nitrophenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	88-75-5	
4-Nitrophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 16:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	86-30-6	
Pentachlorophenol	ND	ug/kg	1990	1	12/31/09 10:20	01/07/10 16:32	87-86-5	
Phenanthrene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	85-01-8	
Phenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	108-95-2	
Pyrene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	398	1	12/31/09 10:20	01/07/10 16:32	88-06-2	
Nitrobenzene-d5 (S)	63 %		30-150	1	12/31/09 10:20	01/07/10 16:32	4165-60-0	
2-Fluorobiphenyl (S)	55 %		46-120	1	12/31/09 10:20	01/07/10 16:32	321-60-8	
Terphenyl-d14 (S)	58 %		38-108	1	12/31/09 10:20	01/07/10 16:32	1718-51-0	
Phenol-d6 (S)	60 %		35-120	1	12/31/09 10:20	01/07/10 16:32	13127-88-3	
2-Fluorophenol (S)	57 %		24-120	1	12/31/09 10:20	01/07/10 16:32	367-12-4	
2,4,6-Tribromophenol (S)	70 %		44-136	1	12/31/09 10:20	01/07/10 16:32	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 48 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-1-9 Lab ID: 9259999011 Collected: 12/18/09 10:22 Received: 12/21/09 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						
Acetone	ND	ug/kg	113	1		12/25/09 05:07	67-64-1	
Benzene	ND	ug/kg	5.7	1		12/25/09 05:07	71-43-2	
Bromobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		12/25/09 05:07	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		12/25/09 05:07	75-27-4	
Bromoform	ND	ug/kg	5.7	1		12/25/09 05:07	75-25-2	
Bromomethane	ND	ug/kg	11.3	1		12/25/09 05:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	113	1		12/25/09 05:07	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1		12/25/09 05:07	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	108-90-7	
Chloroethane	ND	ug/kg	11.3	1		12/25/09 05:07	75-00-3	
Chloroform	ND	ug/kg	5.7	1		12/25/09 05:07	67-66-3	
Chloromethane	ND	ug/kg	11.3	1		12/25/09 05:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		12/25/09 05:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		12/25/09 05:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1		12/25/09 05:07	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1		12/25/09 05:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		12/25/09 05:07	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		12/25/09 05:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.3	1		12/25/09 05:07	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		12/25/09 05:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		12/25/09 05:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		12/25/09 05:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		12/25/09 05:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		12/25/09 05:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		12/25/09 05:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		12/25/09 05:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		12/25/09 05:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		12/25/09 05:07	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.7	1		12/25/09 05:07	108-20-3	
Ethylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		12/25/09 05:07	87-68-3	
2-Hexanone	ND	ug/kg	56.5	1		12/25/09 05:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		12/25/09 05:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		12/25/09 05:07	99-87-6	
Methylene Chloride	ND	ug/kg	22.6	1		12/25/09 05:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	56.5	1		12/25/09 05:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		12/25/09 05:07	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 49 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-1-9 Lab ID: 9259999011 Collected: 12/18/09 10:22 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	5.7	1		12/25/09 05:07	91-20-3	
n-Propylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	103-65-1	
Styrene	ND	ug/kg	5.7	1		12/25/09 05:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		12/25/09 05:07	127-18-4	
Toluene	ND	ug/kg	5.7	1		12/25/09 05:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		12/25/09 05:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		12/25/09 05:07	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		12/25/09 05:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		12/25/09 05:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		12/25/09 05:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		12/25/09 05:07	108-67-8	
Vinyl acetate	ND	ug/kg	56.5	1		12/25/09 05:07	108-05-4	
Vinyl chloride	ND	ug/kg	11.3	1		12/25/09 05:07	75-01-4	
Xylene (Total)	ND	ug/kg	11.3	1		12/25/09 05:07	1330-20-7	
m&p-Xylene	ND	ug/kg	11.3	1		12/25/09 05:07	1330-20-7	
o-Xylene	ND	ug/kg	5.7	1		12/25/09 05:07	95-47-6	
Dibromofluoromethane (S)	126 %		79-116	1		12/25/09 05:07	1868-53-7	S6
Toluene-d8 (S)	101 %		88-110	1		12/25/09 05:07	2037-26-5	
4-Bromofluorobenzene (S)	94 %		74-115	1		12/25/09 05:07	460-00-4	
1,2-Dichloroethane-d4 (S)	128 %		69-121	1		12/25/09 05:07	17060-07-0	S6

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	17.2 %	0.10	1	12/24/09 14:11
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-2-9 Lab ID: 9259999012 Collected: 12/18/09 13:00 Received: 12/21/09 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		5.6	1	12/28/09 16:30	12/29/09 17:21	68334-30-5	
n-Pentacosane (S)	76 %		50-135	1	12/28/09 16:30	12/29/09 17:21	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.3	1	12/22/09 11:30	12/24/09 07:40		
Aliphatic (C19-C36)	ND mg/kg		11.3	1	12/22/09 11:30	12/24/09 07:40		
Aromatic (C11-C22)	ND mg/kg		11.3	1	12/22/09 11:30	12/24/09 07:40		
Nonatriacontane (S)	84 %		40-140	1	12/22/09 11:30	12/24/09 07:40	7194-86-7	
o-Terphenyl (S)	73 %		40-140	1	12/22/09 11:30	12/24/09 07:40	84-15-1	
2-Fluorobiphenyl (S)	88 %		40-140	1	12/22/09 11:30	12/24/09 07:40	321-60-8	
2-Bromonaphthalene (S)	88 %		40-140	1	12/22/09 11:30	12/24/09 07:40	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		4.8	1	12/30/09 14:58	12/31/09 07:37	8006-61-9	
4-Bromofluorobenzene (S)	108 %		50-135	1	12/30/09 14:58	12/31/09 07:37	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	83-32-9	
Acenaphthylene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	208-96-8	
Aniline	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	62-53-3	
Anthracene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	120-12-7	
Benzo(a)anthracene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	56-55-3	
Benzo(a)pyrene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	207-08-9	
Benzoic Acid	ND ug/kg		1860	1	12/23/09 09:10	12/30/09 02:07	65-85-0	
Benzyl alcohol	ND ug/kg		743	1	12/23/09 09:10	12/30/09 02:07	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	101-55-3	
Butylbenzylphthalate	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		743	1	12/23/09 09:10	12/30/09 02:07	59-50-7	
4-Chloroaniline	ND ug/kg		1860	1	12/23/09 09:10	12/30/09 02:07	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	108-60-1	
2-Chloronaphthalene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	91-58-7	
2-Chlorophenol	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	7005-72-3	
Chrysene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	53-70-3	
Dibenzofuran	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		372	1	12/23/09 09:10	12/30/09 02:07	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1860	1	12/23/09 09:10	12/30/09 02:07	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-2-9 Lab ID: 9259999012 Collected: 12/18/09 13:00 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	120-83-2	
Diethylphthalate	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	105-67-9	
Dimethylphthalate	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	743	1	12/23/09 09:10	12/30/09 02:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1860	1	12/23/09 09:10	12/30/09 02:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	117-81-7	
Fluoranthene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	206-44-0	
Fluorene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	77-47-4	
Hexachloroethane	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	193-39-5	
Isophorone	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	78-59-1	
1-Methylnaphthalene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	90-12-0	
2-Methylnaphthalene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07		
Naphthalene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	91-20-3	
2-Nitroaniline	ND	ug/kg	1860	1	12/23/09 09:10	12/30/09 02:07	88-74-4	
3-Nitroaniline	ND	ug/kg	1860	1	12/23/09 09:10	12/30/09 02:07	99-09-2	
4-Nitroaniline	ND	ug/kg	743	1	12/23/09 09:10	12/30/09 02:07	100-01-6	
Nitrobenzene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	98-95-3	
2-Nitrophenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	88-75-5	
4-Nitrophenol	ND	ug/kg	1860	1	12/23/09 09:10	12/30/09 02:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	86-30-6	
Pentachlorophenol	ND	ug/kg	1860	1	12/23/09 09:10	12/30/09 02:07	87-86-5	
Phenanthrene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	85-01-8	
Phenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	108-95-2	
Pyrene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	372	1	12/23/09 09:10	12/30/09 02:07	88-06-2	
Nitrobenzene-d5 (S)	52 %		30-150	1	12/23/09 09:10	12/30/09 02:07	4165-60-0	
2-Fluorobiphenyl (S)	44 %		46-120	1	12/23/09 09:10	12/30/09 02:07	321-60-8	S0
Terphenyl-d14 (S)	50 %		38-108	1	12/23/09 09:10	12/30/09 02:07	1718-51-0	
Phenol-d6 (S)	54 %		35-120	1	12/23/09 09:10	12/30/09 02:07	13127-88-3	
2-Fluorophenol (S)	50 %		24-120	1	12/23/09 09:10	12/30/09 02:07	367-12-4	
2,4,6-Tribromophenol (S)	60 %		44-136	1	12/23/09 09:10	12/30/09 02:07	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 52 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-2-9 Lab ID: 9259999012 Collected: 12/18/09 13:00 Received: 12/21/09 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						
Acetone	ND	ug/kg	82.7	1		12/25/09 04:13	67-64-1	
Benzene	ND	ug/kg	4.1	1		12/25/09 04:13	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/25/09 04:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/25/09 04:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/25/09 04:13	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/25/09 04:13	75-25-2	
Bromomethane	ND	ug/kg	8.3	1		12/25/09 04:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	82.7	1		12/25/09 04:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 04:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 04:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 04:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/25/09 04:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/25/09 04:13	108-90-7	
Chloroethane	ND	ug/kg	8.3	1		12/25/09 04:13	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/25/09 04:13	67-66-3	
Chloromethane	ND	ug/kg	8.3	1		12/25/09 04:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 04:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		12/25/09 04:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		12/25/09 04:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/25/09 04:13	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/25/09 04:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 04:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 04:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 04:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.3	1		12/25/09 04:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 04:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 04:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 04:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 04:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 04:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 04:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 04:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 04:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 04:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 04:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 04:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		12/25/09 04:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		12/25/09 04:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/25/09 04:13	87-68-3	
2-Hexanone	ND	ug/kg	41.3	1		12/25/09 04:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/25/09 04:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/25/09 04:13	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		12/25/09 04:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.3	1		12/25/09 04:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/25/09 04:13	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 53 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2077A-2-9 Lab ID: 9259999012 Collected: 12/18/09 13:00 Received: 12/21/09 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						
Naphthalene	ND ug/kg		4.1	1		12/25/09 04:13	91-20-3	
n-Propylbenzene	ND ug/kg		4.1	1		12/25/09 04:13	103-65-1	
Styrene	ND ug/kg		4.1	1		12/25/09 04:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		4.1	1		12/25/09 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.1	1		12/25/09 04:13	79-34-5	
Tetrachloroethene	ND ug/kg		4.1	1		12/25/09 04:13	127-18-4	
Toluene	ND ug/kg		4.1	1		12/25/09 04:13	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		4.1	1		12/25/09 04:13	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		4.1	1		12/25/09 04:13	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		4.1	1		12/25/09 04:13	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.1	1		12/25/09 04:13	79-00-5	
Trichloroethene	ND ug/kg		4.1	1		12/25/09 04:13	79-01-6	
Trichlorofluoromethane	ND ug/kg		4.1	1		12/25/09 04:13	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		4.1	1		12/25/09 04:13	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		4.1	1		12/25/09 04:13	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		4.1	1		12/25/09 04:13	108-67-8	
Vinyl acetate	ND ug/kg		41.3	1		12/25/09 04:13	108-05-4	
Vinyl chloride	ND ug/kg		8.3	1		12/25/09 04:13	75-01-4	
Xylene (Total)	ND ug/kg		8.3	1		12/25/09 04:13	1330-20-7	
m&p-Xylene	ND ug/kg		8.3	1		12/25/09 04:13	1330-20-7	
o-Xylene	ND ug/kg		4.1	1		12/25/09 04:13	95-47-6	
Dibromofluoromethane (S)	107 %		79-116	1		12/25/09 04:13	1868-53-7	
Toluene-d8 (S)	102 %		88-110	1		12/25/09 04:13	2037-26-5	
4-Bromofluorobenzene (S)	97 %		74-115	1		12/25/09 04:13	460-00-4	
1,2-Dichloroethane-d4 (S)	132 %		69-121	1		12/25/09 04:13	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.2 %		0.10	1		12/24/09 14:11		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-3-9 Lab ID: 9259999013 Collected: 12/18/09 13:20 Received: 12/21/09 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	12/28/09 16:30	12/29/09 18:18	68334-30-5	
n-Pentacosane (S)	64	%	50-135	1	12/28/09 16:30	12/29/09 18:18	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND	mg/kg	12.6	1	12/22/09 11:30	12/24/09 08:14		
Aliphatic (C19-C36)	ND	mg/kg	12.6	1	12/22/09 11:30	12/24/09 08:14		
Aromatic (C11-C22)	ND	mg/kg	12.6	1	12/22/09 11:30	12/24/09 08:14		
Nonatriacontane (S)	91	%	40-140	1	12/22/09 11:30	12/24/09 08:14	7194-86-7	
o-Terphenyl (S)	76	%	40-140	1	12/22/09 11:30	12/24/09 08:14	84-15-1	
2-Fluorobiphenyl (S)	92	%	40-140	1	12/22/09 11:30	12/24/09 08:14	321-60-8	
2-Bromonaphthalene (S)	92	%	40-140	1	12/22/09 11:30	12/24/09 08:14	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.9	1	12/30/09 14:58	12/31/09 07:13	8006-61-9	
4-Bromofluorobenzene (S)	101	%	50-135	1	12/30/09 14:58	12/31/09 07:13	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	83-32-9	
Acenaphthylene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	208-96-8	
Aniline	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	62-53-3	
Anthracene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	207-08-9	
Benzoic Acid	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	65-85-0	
Benzyl alcohol	ND	ug/kg	829	1	12/31/09 10:20	01/07/10 17:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	101-55-3	
Butylbenzylphthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	829	1	12/31/09 10:20	01/07/10 17:03	59-50-7	
4-Chloroaniline	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	108-60-1	
2-Chloronaphthalene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	91-58-7	
2-Chlorophenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	7005-72-3	
Chrysene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	53-70-3	
Dibenzofuran	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2077A-3-9 Lab ID: 9259999013 Collected: 12/18/09 13:20 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	120-83-2	
Diethylphthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	105-67-9	
Dimethylphthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	131-11-3	
Di-n-butylphthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	829	1	12/31/09 10:20	01/07/10 17:03	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	606-20-2	
Di-n-octylphthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	117-81-7	
Fluoranthene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	206-44-0	
Fluorene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	87-68-3	
Hexachlorobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	77-47-4	
Hexachloroethane	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	193-39-5	
Isophorone	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	78-59-1	
1-Methylnaphthalene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	90-12-0	
2-Methylnaphthalene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03		
Naphthalene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	91-20-3	
2-Nitroaniline	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	88-74-4	
3-Nitroaniline	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	99-09-2	
4-Nitroaniline	ND	ug/kg	829	1	12/31/09 10:20	01/07/10 17:03	100-01-6	
Nitrobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	98-95-3	
2-Nitrophenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	88-75-5	
4-Nitrophenol	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	86-30-6	
Pentachlorophenol	ND	ug/kg	2070	1	12/31/09 10:20	01/07/10 17:03	87-86-5	
Phenanthrene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	85-01-8	
Phenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	108-95-2	
Pyrene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	415	1	12/31/09 10:20	01/07/10 17:03	88-06-2	
Nitrobenzene-d5 (S)	63 %		30-150	1	12/31/09 10:20	01/07/10 17:03	4165-60-0	
2-Fluorobiphenyl (S)	55 %		46-120	1	12/31/09 10:20	01/07/10 17:03	321-60-8	
Terphenyl-d14 (S)	41 %		38-108	1	12/31/09 10:20	01/07/10 17:03	1718-51-0	
Phenol-d6 (S)	58 %		35-120	1	12/31/09 10:20	01/07/10 17:03	13127-88-3	
2-Fluorophenol (S)	54 %		24-120	1	12/31/09 10:20	01/07/10 17:03	367-12-4	
2,4,6-Tribromophenol (S)	78 %		44-136	1	12/31/09 10:20	01/07/10 17:03	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 56 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-3-9 Lab ID: 9259999013 Collected: 12/18/09 13:20 Received: 12/21/09 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						
Acetone	ND	ug/kg	97.4	1		12/25/09 04:31	67-64-1	
Benzene	ND	ug/kg	4.9	1		12/25/09 04:31	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		12/25/09 04:31	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		12/25/09 04:31	75-27-4	
Bromoform	ND	ug/kg	4.9	1		12/25/09 04:31	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		12/25/09 04:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.4	1		12/25/09 04:31	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		12/25/09 04:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		12/25/09 04:31	75-00-3	
Chloroform	ND	ug/kg	4.9	1		12/25/09 04:31	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		12/25/09 04:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		12/25/09 04:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		12/25/09 04:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		12/25/09 04:31	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		12/25/09 04:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		12/25/09 04:31	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		12/25/09 04:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		12/25/09 04:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		12/25/09 04:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/25/09 04:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/25/09 04:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		12/25/09 04:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		12/25/09 04:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		12/25/09 04:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		12/25/09 04:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/25/09 04:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/25/09 04:31	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		12/25/09 04:31	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		12/25/09 04:31	87-68-3	
2-Hexanone	ND	ug/kg	48.7	1		12/25/09 04:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		12/25/09 04:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		12/25/09 04:31	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	1		12/25/09 04:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.7	1		12/25/09 04:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		12/25/09 04:31	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 57 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2077A-3-9 **Lab ID:** 9259999013 **Collected:** 12/18/09 13:20 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.9	1		12/25/09 04:31	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	103-65-1	
Styrene	ND	ug/kg	4.9	1		12/25/09 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		12/25/09 04:31	127-18-4	
Toluene	ND	ug/kg	4.9	1		12/25/09 04:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		12/25/09 04:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		12/25/09 04:31	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		12/25/09 04:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		12/25/09 04:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		12/25/09 04:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		12/25/09 04:31	108-67-8	
Vinyl acetate	ND	ug/kg	48.7	1		12/25/09 04:31	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		12/25/09 04:31	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		12/25/09 04:31	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		12/25/09 04:31	1330-20-7	
o-Xylene	ND	ug/kg	4.9	1		12/25/09 04:31	95-47-6	
Dibromofluoromethane (S)	135 %		79-116	1		12/25/09 04:31	1868-53-7	S3
Toluene-d8 (S)	101 %		88-110	1		12/25/09 04:31	2037-26-5	
4-Bromofluorobenzene (S)	94 %		74-115	1		12/25/09 04:31	460-00-4	
1,2-Dichloroethane-d4 (S)	123 %		69-121	1		12/25/09 04:31	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	20.4 %	0.10	1	12/24/09 14:11
------------------	---------------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-B-12 Lab ID: 9259999014 Collected: 12/18/09 13:35 Received: 12/21/09 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	12/28/09 16:30	12/29/09 18:18	68334-30-5	
n-Pentacosane (S)	83 %		50-135	1	12/28/09 16:30	12/29/09 18:18	629-99-2	
MADEP EPH NC Soli Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		12.3	1	12/22/09 11:30	12/24/09 08:48		
Aliphatic (C19-C36)	ND mg/kg		12.3	1	12/22/09 11:30	12/24/09 08:48		
Aromatic (C11-C22)	ND mg/kg		12.3	1	12/22/09 11:30	12/24/09 08:48		
Nonatriacontane (S)	78 %		40-140	1	12/22/09 11:30	12/24/09 08:48	7194-86-7	
o-Terphenyl (S)	70 %		40-140	1	12/22/09 11:30	12/24/09 08:48	84-15-1	
2-Fluorobiphenyl (S)	84 %		40-140	1	12/22/09 11:30	12/24/09 08:48	321-60-8	
2-Bromonaphthalene (S)	85 %		40-140	1	12/22/09 11:30	12/24/09 08:48	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.9	1	12/30/09 14:58	12/31/09 06:48	8006-61-9	
4-Bromofluorobenzene (S)	118 %		50-135	1	12/30/09 14:58	12/31/09 06:48	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	83-32-9	
Acenaphthylene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	208-96-8	
Aniline	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	62-53-3	
Anthracene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	120-12-7	
Benzo(a)anthracene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	56-55-3	
Benzo(a)pyrene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	207-08-9	
Benzoic Acid	ND ug/kg		2030	1	12/31/09 10:20	01/07/10 17:33	65-85-0	
Benzyl alcohol	ND ug/kg		813	1	12/31/09 10:20	01/07/10 17:33	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	101-55-3	
Butylbenzylphthalate	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		813	1	12/31/09 10:20	01/07/10 17:33	59-50-7	
4-Chloroaniline	ND ug/kg		2030	1	12/31/09 10:20	01/07/10 17:33	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	108-60-1	
2-Chloronaphthalene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	91-58-7	
2-Chlorophenol	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	7005-72-3	
Chrysene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	53-70-3	
Dibenzofuran	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		406	1	12/31/09 10:20	01/07/10 17:33	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		2030	1	12/31/09 10:20	01/07/10 17:33	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-B-12 Lab ID: 9259999014 Collected: 12/18/09 13:35 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	120-83-2	
Diethylphthalate	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	105-67-9	
Dimethylphthalate	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	813	1	12/31/09 10:20	01/07/10 17:33	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2030	1	12/31/09 10:20	01/07/10 17:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	117-81-7	
Fluoranthene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	206-44-0	
Fluorene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	77-47-4	
Hexachloroethane	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	193-39-5	
Isophorone	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	78-59-1	
1-Methylnaphthalene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33		
Naphthalene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	91-20-3	
2-Nitroaniline	ND	ug/kg	2030	1	12/31/09 10:20	01/07/10 17:33	88-74-4	
3-Nitroaniline	ND	ug/kg	2030	1	12/31/09 10:20	01/07/10 17:33	99-09-2	
4-Nitroaniline	ND	ug/kg	813	1	12/31/09 10:20	01/07/10 17:33	100-01-6	
Nitrobenzene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	98-95-3	
2-Nitrophenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	88-75-5	
4-Nitrophenol	ND	ug/kg	2030	1	12/31/09 10:20	01/07/10 17:33	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	86-30-6	
Pentachlorophenol	ND	ug/kg	2030	1	12/31/09 10:20	01/07/10 17:33	87-86-5	
Phenanthrene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	85-01-8	
Phenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	108-95-2	
Pyrene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	1	12/31/09 10:20	01/07/10 17:33	88-06-2	
Nitrobenzene-d5 (S)	62 %		30-150	1	12/31/09 10:20	01/07/10 17:33	4165-60-0	
2-Fluorobiphenyl (S)	56 %		46-120	1	12/31/09 10:20	01/07/10 17:33	321-60-8	
Terphenyl-d14 (S)	39 %		38-108	1	12/31/09 10:20	01/07/10 17:33	1718-51-0	
Phenol-d6 (S)	59 %		35-120	1	12/31/09 10:20	01/07/10 17:33	13127-88-3	
2-Fluorophenol (S)	55 %		24-120	1	12/31/09 10:20	01/07/10 17:33	367-12-4	
2,4,6-Tribromophenol (S)	74 %		44-136	1	12/31/09 10:20	01/07/10 17:33	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 60 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-B-12 Lab ID: 9259999014 Collected: 12/18/09 13:35 Received: 12/21/09 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						
Acetone	ND	ug/kg	84.4	1		12/25/09 04:49	67-64-1	
Benzene	ND	ug/kg	4.2	1		12/25/09 04:49	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		12/25/09 04:49	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		12/25/09 04:49	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		12/25/09 04:49	75-27-4	
Bromoform	ND	ug/kg	4.2	1		12/25/09 04:49	75-25-2	
Bromomethane	ND	ug/kg	8.4	1		12/25/09 04:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	84.4	1		12/25/09 04:49	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 04:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 04:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 04:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.2	1		12/25/09 04:49	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		12/25/09 04:49	108-90-7	
Chloroethane	ND	ug/kg	8.4	1		12/25/09 04:49	75-00-3	
Chloroform	ND	ug/kg	4.2	1		12/25/09 04:49	67-66-3	
Chloromethane	ND	ug/kg	8.4	1		12/25/09 04:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		12/25/09 04:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		12/25/09 04:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	1		12/25/09 04:49	96-12-8	
Dibromochloromethane	ND	ug/kg	4.2	1		12/25/09 04:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		12/25/09 04:49	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		12/25/09 04:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 04:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 04:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 04:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.4	1		12/25/09 04:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		12/25/09 04:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		12/25/09 04:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 04:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 04:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 04:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 04:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 04:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 04:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 04:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 04:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 04:49	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.2	1		12/25/09 04:49	108-20-3	
Ethylbenzene	ND	ug/kg	4.2	1		12/25/09 04:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		12/25/09 04:49	87-68-3	
2-Hexanone	ND	ug/kg	42.2	1		12/25/09 04:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		12/25/09 04:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		12/25/09 04:49	99-87-6	
Methylene Chloride	ND	ug/kg	16.9	1		12/25/09 04:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.2	1		12/25/09 04:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		12/25/09 04:49	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 61 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2077A-B-12 **Lab ID:** 9259999014 **Collected:** 12/18/09 13:35 **Received:** 12/21/09 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						
Naphthalene	ND ug/kg		4.2	1		12/25/09 04:49	91-20-3	
n-Propylbenzene	ND ug/kg		4.2	1		12/25/09 04:49	103-65-1	
Styrene	ND ug/kg		4.2	1		12/25/09 04:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		4.2	1		12/25/09 04:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.2	1		12/25/09 04:49	79-34-5	
Tetrachloroethene	ND ug/kg		4.2	1		12/25/09 04:49	127-18-4	
Toluene	ND ug/kg		4.2	1		12/25/09 04:49	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		4.2	1		12/25/09 04:49	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		4.2	1		12/25/09 04:49	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		4.2	1		12/25/09 04:49	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.2	1		12/25/09 04:49	79-00-5	
Trichloroethene	ND ug/kg		4.2	1		12/25/09 04:49	79-01-6	
Trichlorofluoromethane	ND ug/kg		4.2	1		12/25/09 04:49	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		4.2	1		12/25/09 04:49	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		4.2	1		12/25/09 04:49	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		4.2	1		12/25/09 04:49	108-67-8	
Vinyl acetate	ND ug/kg		42.2	1		12/25/09 04:49	108-05-4	
Vinyl chloride	ND ug/kg		8.4	1		12/25/09 04:49	75-01-4	
Xylene (Total)	ND ug/kg		8.4	1		12/25/09 04:49	1330-20-7	
m&p-Xylene	ND ug/kg		8.4	1		12/25/09 04:49	1330-20-7	
o-Xylene	ND ug/kg		4.2	1		12/25/09 04:49	95-47-6	
Dibromofluoromethane (S)	101 %		79-116	1		12/25/09 04:49	1868-53-7	
Toluene-d8 (S)	101 %		88-110	1		12/25/09 04:49	2037-26-5	
4-Bromofluorobenzene (S)	94 %		74-115	1		12/25/09 04:49	460-00-4	
1,2-Dichloroethane-d4 (S)	122 %		69-121	1		12/25/09 04:49	17060-07-0	S6

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	18.8 %	0.10	1	12/24/09 14:11
------------------	---------------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-1 **Lab ID:** 9259999015 **Collected:** 12/17/09 08:10 **Received:** 12/21/09 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	6.8 mg/kg		6.1	1	12/28/09 16:30	12/29/09 18:47	68334-30-5	
n-Pentacosane (S)	67 %		50-135	1	12/28/09 16:30	12/29/09 18:47	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		12.3	1	12/22/09 11:30	12/24/09 09:22		
Aliphatic (C19-C36)	ND mg/kg		12.3	1	12/22/09 11:30	12/24/09 09:22		
Aromatic (C11-C22)	34.3 mg/kg		12.3	1	12/22/09 11:30	12/24/09 09:22		
Nonatriacontane (S)	88 %		40-140	1	12/22/09 11:30	12/24/09 09:22	7194-86-7	
o-Terphenyl (S)	88 %		40-140	1	12/22/09 11:30	12/24/09 09:22	84-15-1	
2-Fluorobiphenyl (S)	95 %		40-140	1	12/22/09 11:30	12/24/09 09:22	321-60-8	
2-Bromonaphthalene (S)	94 %		40-140	1	12/22/09 11:30	12/24/09 09:22	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.3	1	12/30/09 14:54	12/31/09 00:29	8006-61-9	
4-Bromofluorobenzene (S)	120 %		50-135	1	12/30/09 14:54	12/31/09 00:29	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	83-32-9	
Acenaphthylene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	208-96-8	
Aniline	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	62-53-3	
Anthracene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	120-12-7	
Benzo(a)anthracene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	56-55-3	
Benzo(a)pyrene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	207-08-9	
Benzoic Acid	ND ug/kg		2020	1	12/23/09 09:10	12/30/09 03:37	65-85-0	
Benzyl alcohol	ND ug/kg		810	1	12/23/09 09:10	12/30/09 03:37	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	101-55-3	
Butylbenzylphthalate	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		810	1	12/23/09 09:10	12/30/09 03:37	59-50-7	
4-Chloroaniline	ND ug/kg		2020	1	12/23/09 09:10	12/30/09 03:37	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	108-60-1	
2-Chloronaphthalene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	91-58-7	
2-Chlorophenol	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	7005-72-3	
Chrysene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	53-70-3	
Dibenzofuran	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		405	1	12/23/09 09:10	12/30/09 03:37	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		2020	1	12/23/09 09:10	12/30/09 03:37	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-1 Lab ID: 9259999015 Collected: 12/17/09 08:10 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	120-83-2	
Diethylphthalate	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	105-67-9	
Dimethylphthalate	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	131-11-3	
Di-n-butylphthalate	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	810	1	12/23/09 09:10	12/30/09 03:37	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2020	1	12/23/09 09:10	12/30/09 03:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	606-20-2	
Di-n-octylphthalate	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	117-81-7	
Fluoranthene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	206-44-0	
Fluorene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	87-68-3	
Hexachlorobenzene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	77-47-4	
Hexachloroethane	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	193-39-5	
Isophorone	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	78-59-1	
1-Methylnaphthalene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37		
Naphthalene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	12/23/09 09:10	12/30/09 03:37	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	12/23/09 09:10	12/30/09 03:37	99-09-2	
4-Nitroaniline	ND	ug/kg	810	1	12/23/09 09:10	12/30/09 03:37	100-01-6	
Nitrobenzene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	98-95-3	
2-Nitrophenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	12/23/09 09:10	12/30/09 03:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	86-30-6	
Pentachlorophenol	ND	ug/kg	2020	1	12/23/09 09:10	12/30/09 03:37	87-86-5	
Phenanthrene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	85-01-8	
Phenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	108-95-2	
Pyrene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	405	1	12/23/09 09:10	12/30/09 03:37	88-06-2	
Nitrobenzene-d5 (S)	45	%	30-150	1	12/23/09 09:10	12/30/09 03:37	4165-60-0	
2-Fluorobiphenyl (S)	41	%	46-120	1	12/23/09 09:10	12/30/09 03:37	321-60-8	S0
Terphenyl-d14 (S)	39	%	38-108	1	12/23/09 09:10	12/30/09 03:37	1718-51-0	
Phenol-d6 (S)	46	%	35-120	1	12/23/09 09:10	12/30/09 03:37	13127-88-3	
2-Fluorophenol (S)	43	%	24-120	1	12/23/09 09:10	12/30/09 03:37	367-12-4	
2,4,6-Tribromophenol (S)	48	%	44-136	1	12/23/09 09:10	12/30/09 03:37	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 64 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-1 Lab ID: 9259999015 Collected: 12/17/09 08:10 Received: 12/21/09 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						
Acetone	ND	ug/kg	84.0	1		12/25/09 01:11	67-64-1	
Benzene	ND	ug/kg	4.2	1		12/25/09 01:11	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		12/25/09 01:11	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		12/25/09 01:11	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		12/25/09 01:11	75-27-4	
Bromoform	ND	ug/kg	4.2	1		12/25/09 01:11	75-25-2	
Bromomethane	ND	ug/kg	8.4	1		12/25/09 01:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	84.0	1		12/25/09 01:11	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 01:11	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 01:11	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		12/25/09 01:11	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.2	1		12/25/09 01:11	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		12/25/09 01:11	108-90-7	
Chloroethane	ND	ug/kg	8.4	1		12/25/09 01:11	75-00-3	
Chloroform	ND	ug/kg	4.2	1		12/25/09 01:11	67-66-3	
Chloromethane	ND	ug/kg	8.4	1		12/25/09 01:11	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		12/25/09 01:11	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		12/25/09 01:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	1		12/25/09 01:11	96-12-8	
Dibromochloromethane	ND	ug/kg	4.2	1		12/25/09 01:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		12/25/09 01:11	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		12/25/09 01:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 01:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 01:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		12/25/09 01:11	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.4	1		12/25/09 01:11	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		12/25/09 01:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		12/25/09 01:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 01:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 01:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/25/09 01:11	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 01:11	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 01:11	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		12/25/09 01:11	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 01:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 01:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/25/09 01:11	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.2	1		12/25/09 01:11	108-20-3	
Ethylbenzene	ND	ug/kg	4.2	1		12/25/09 01:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		12/25/09 01:11	87-68-3	
2-Hexanone	ND	ug/kg	42.0	1		12/25/09 01:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		12/25/09 01:11	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		12/25/09 01:11	99-87-6	
Methylene Chloride	ND	ug/kg	16.8	1		12/25/09 01:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.0	1		12/25/09 01:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		12/25/09 01:11	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 65 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2125-1 Lab ID: 9259999015 Collected: 12/17/09 08:10 Received: 12/21/09 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						
Naphthalene	ND ug/kg		4.2	1		12/25/09 01:11	91-20-3	
n-Propylbenzene	ND ug/kg		4.2	1		12/25/09 01:11	103-65-1	
Styrene	ND ug/kg		4.2	1		12/25/09 01:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		4.2	1		12/25/09 01:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.2	1		12/25/09 01:11	79-34-5	
Tetrachloroethene	ND ug/kg		4.2	1		12/25/09 01:11	127-18-4	
Toluene	ND ug/kg		4.2	1		12/25/09 01:11	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		4.2	1		12/25/09 01:11	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		4.2	1		12/25/09 01:11	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		4.2	1		12/25/09 01:11	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.2	1		12/25/09 01:11	79-00-5	
Trichloroethene	ND ug/kg		4.2	1		12/25/09 01:11	79-01-6	
Trichlorofluoromethane	ND ug/kg		4.2	1		12/25/09 01:11	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		4.2	1		12/25/09 01:11	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		4.2	1		12/25/09 01:11	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		4.2	1		12/25/09 01:11	108-67-8	
Vinyl acetate	ND ug/kg		42.0	1		12/25/09 01:11	108-05-4	
Vinyl chloride	ND ug/kg		8.4	1		12/25/09 01:11	75-01-4	
Xylene (Total)	ND ug/kg		8.4	1		12/25/09 01:11	1330-20-7	
m&p-Xylene	ND ug/kg		8.4	1		12/25/09 01:11	1330-20-7	
o-Xylene	ND ug/kg		4.2	1		12/25/09 01:11	95-47-6	
Dibromofluoromethane (S)	128 %		79-116	1		12/25/09 01:11	1868-53-7	S3
Toluene-d8 (S)	100 %		88-110	1		12/25/09 01:11	2037-26-5	
4-Bromofluorobenzene (S)	99 %		74-115	1		12/25/09 01:11	460-00-4	
1,2-Dichloroethane-d4 (S)	120 %		69-121	1		12/25/09 01:11	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	18.5 %	0.10	1	12/24/09 14:12
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-2 Lab ID: 9259999016 Collected: 12/17/09 08:30 Received: 12/21/09 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	74.2 mg/kg		5.9	1	12/28/09 16:30	12/29/09 18:47	68334-30-5	
n-Pentacosane (S)	80 %		50-135	1	12/28/09 16:30	12/29/09 18:47	629-99-2	
MADEP EPH NC Soli Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.9	1	12/22/09 11:30	12/24/09 09:56		
Aliphatic (C19-C36)	ND mg/kg		11.9	1	12/22/09 11:30	12/24/09 09:56		
Aromatic (C11-C22)	ND mg/kg		11.9	1	12/22/09 11:30	12/24/09 09:56		
Nonatriacontane (S)	92 %		40-140	1	12/22/09 11:30	12/24/09 09:56	7194-86-7	
o-Terphenyl (S)	81 %		40-140	1	12/22/09 11:30	12/24/09 09:56	84-15-1	
2-Fluorobiphenyl (S)	93 %		40-140	1	12/22/09 11:30	12/24/09 09:56	321-60-8	
2-Bromonaphthalene (S)	93 %		40-140	1	12/22/09 11:30	12/24/09 09:56	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		6.0	1	12/30/09 14:58	12/31/09 05:09	8006-61-9	
4-Bromofluorobenzene (S)	103 %		50-135	1	12/30/09 14:58	12/31/09 05:09	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	83-32-9	
Acenaphthylene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	208-96-8	
Aniline	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	62-53-3	
Anthracene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	120-12-7	
Benzo(a)anthracene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	56-55-3	
Benzo(a)pyrene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	207-08-9	
Benzoic Acid	ND ug/kg		1960	1	12/31/09 10:20	01/07/10 18:04	65-85-0	
Benzyl alcohol	ND ug/kg		785	1	12/31/09 10:20	01/07/10 18:04	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	101-55-3	
Butylbenzylphthalate	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		785	1	12/31/09 10:20	01/07/10 18:04	59-50-7	
4-Chloroaniline	ND ug/kg		1960	1	12/31/09 10:20	01/07/10 18:04	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	108-60-1	
2-Chloronaphthalene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	91-58-7	
2-Chlorophenol	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	7005-72-3	
Chrysene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	53-70-3	
Dibenzofuran	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		392	1	12/31/09 10:20	01/07/10 18:04	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1960	1	12/31/09 10:20	01/07/10 18:04	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 67 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-2 Lab ID: 9259999016 Collected: 12/17/09 08:30 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	120-83-2	
Diethylphthalate	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	105-67-9	
Dimethylphthalate	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	785	1	12/31/09 10:20	01/07/10 18:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1960	1	12/31/09 10:20	01/07/10 18:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	117-81-7	
Fluoranthene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	206-44-0	
Fluorene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	77-47-4	
Hexachloroethane	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	193-39-5	
Isophorone	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04		
Naphthalene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	91-20-3	
2-Nitroaniline	ND	ug/kg	1960	1	12/31/09 10:20	01/07/10 18:04	88-74-4	
3-Nitroaniline	ND	ug/kg	1960	1	12/31/09 10:20	01/07/10 18:04	99-09-2	
4-Nitroaniline	ND	ug/kg	785	1	12/31/09 10:20	01/07/10 18:04	100-01-6	
Nitrobenzene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	98-95-3	
2-Nitrophenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	88-75-5	
4-Nitrophenol	ND	ug/kg	1960	1	12/31/09 10:20	01/07/10 18:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	86-30-6	
Pentachlorophenol	ND	ug/kg	1960	1	12/31/09 10:20	01/07/10 18:04	87-86-5	
Phenanthrene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	85-01-8	
Phenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	108-95-2	
Pyrene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	392	1	12/31/09 10:20	01/07/10 18:04	88-06-2	
Nitrobenzene-d5 (S)	47 %		30-150	1	12/31/09 10:20	01/07/10 18:04	4165-60-0	
2-Fluorobiphenyl (S)	53 %		46-120	1	12/31/09 10:20	01/07/10 18:04	321-60-8	
Terphenyl-d14 (S)	73 %		38-108	1	12/31/09 10:20	01/07/10 18:04	1718-51-0	
Phenol-d6 (S)	46 %		35-120	1	12/31/09 10:20	01/07/10 18:04	13127-88-3	
2-Fluorophenol (S)	38 %		24-120	1	12/31/09 10:20	01/07/10 18:04	367-12-4	
2,4,6-Tribromophenol (S)	92 %		44-136	1	12/31/09 10:20	01/07/10 18:04	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 68 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-2 Lab ID: 9259999016 Collected: 12/17/09 08:30 Received: 12/21/09 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						
Acetone	ND	ug/kg	81.9	1		12/25/09 01:29	67-64-1	
Benzene	ND	ug/kg	4.1	1		12/25/09 01:29	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/25/09 01:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/25/09 01:29	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/25/09 01:29	75-25-2	
Bromomethane	ND	ug/kg	8.2	1		12/25/09 01:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	81.9	1		12/25/09 01:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/25/09 01:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	108-90-7	
Chloroethane	ND	ug/kg	8.2	1		12/25/09 01:29	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/25/09 01:29	67-66-3	
Chloromethane	ND	ug/kg	8.2	1		12/25/09 01:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 01:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 01:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		12/25/09 01:29	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		12/25/09 01:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/25/09 01:29	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/25/09 01:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.2	1		12/25/09 01:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 01:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 01:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 01:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 01:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 01:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 01:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 01:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 01:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 01:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		12/25/09 01:29	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/25/09 01:29	87-68-3	
2-Hexanone	ND	ug/kg	41.0	1		12/25/09 01:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/25/09 01:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/25/09 01:29	99-87-6	
Methylene Chloride	ND	ug/kg	16.4	1		12/25/09 01:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.0	1		12/25/09 01:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/25/09 01:29	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 69 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-2 **Lab ID:** 9259999016 **Collected:** 12/17/09 08:30 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.1	1		12/25/09 01:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/25/09 01:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/25/09 01:29	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/25/09 01:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/25/09 01:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/25/09 01:29	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/25/09 01:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/25/09 01:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/25/09 01:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/25/09 01:29	108-67-8	
Vinyl acetate	ND	ug/kg	41.0	1		12/25/09 01:29	108-05-4	
Vinyl chloride	ND	ug/kg	8.2	1		12/25/09 01:29	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		12/25/09 01:29	1330-20-7	
m&p-Xylene	ND	ug/kg	8.2	1		12/25/09 01:29	1330-20-7	
o-Xylene	ND	ug/kg	4.1	1		12/25/09 01:29	95-47-6	
Dibromofluoromethane (S)	102 %		79-116	1		12/25/09 01:29	1868-53-7	
Toluene-d8 (S)	100 %		88-110	1		12/25/09 01:29	2037-26-5	
4-Bromofluorobenzene (S)	96 %		74-115	1		12/25/09 01:29	460-00-4	
1,2-Dichloroethane-d4 (S)	119 %		69-121	1		12/25/09 01:29	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.9 %	0.10	1	12/24/09 14:12
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-3 Lab ID: 9259999017 Collected: 12/17/09 08:55 Received: 12/21/09 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		5.8	1	12/28/09 16:30	12/29/09 19:16	68334-30-5	
n-Pentacosane (S)	66 %		50-135	1	12/28/09 16:30	12/29/09 19:16	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.6	1	12/22/09 11:30	12/24/09 10:30		
Aliphatic (C19-C36)	ND mg/kg		11.6	1	12/22/09 11:30	12/24/09 10:30		
Aromatic (C11-C22)	ND mg/kg		11.6	1	12/22/09 11:30	12/24/09 10:30		
Nonatriacontane (S)	81 %		40-140	1	12/22/09 11:30	12/24/09 10:30	7194-86-7	
o-Terphenyl (S)	83 %		40-140	1	12/22/09 11:30	12/24/09 10:30	84-15-1	
2-Fluorobiphenyl (S)	99 %		40-140	1	12/22/09 11:30	12/24/09 10:30	321-60-8	
2-Bromonaphthalene (S)	98 %		40-140	1	12/22/09 11:30	12/24/09 10:30	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.0	1	12/30/09 14:58	12/31/09 02:15	8006-61-9	
4-Bromofluorobenzene (S)	100 %		50-135	1	12/30/09 14:58	12/31/09 02:15	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	83-32-9	
Acenaphthylene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	208-96-8	
Aniline	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	62-53-3	
Anthracene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	120-12-7	
Benzo(a)anthracene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	56-55-3	
Benzo(a)pyrene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	207-08-9	
Benzoic Acid	ND ug/kg		1920	1	12/23/09 09:10	12/30/09 04:37	65-85-0	
Benzyl alcohol	ND ug/kg		769	1	12/23/09 09:10	12/30/09 04:37	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	101-55-3	
Butylbenzylphthalate	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		769	1	12/23/09 09:10	12/30/09 04:37	59-50-7	
4-Chloroaniline	ND ug/kg		1920	1	12/23/09 09:10	12/30/09 04:37	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	108-60-1	
2-Chloronaphthalene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	91-58-7	
2-Chlorophenol	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	7005-72-3	
Chrysene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	53-70-3	
Dibenzofuran	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		384	1	12/23/09 09:10	12/30/09 04:37	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1920	1	12/23/09 09:10	12/30/09 04:37	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-3 Lab ID: 9259999017 Collected: 12/17/09 08:55 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	120-83-2	
Diethylphthalate	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	105-67-9	
Dimethylphthalate	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	131-11-3	
Di-n-butylphthalate	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	769	1	12/23/09 09:10	12/30/09 04:37	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1920	1	12/23/09 09:10	12/30/09 04:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	606-20-2	
Di-n-octylphthalate	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	117-81-7	
Fluoranthene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	206-44-0	
Fluorene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	87-68-3	
Hexachlorobenzene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	77-47-4	
Hexachloroethane	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	193-39-5	
Isophorone	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	78-59-1	
1-Methylnaphthalene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37		
Naphthalene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	91-20-3	
2-Nitroaniline	ND	ug/kg	1920	1	12/23/09 09:10	12/30/09 04:37	88-74-4	
3-Nitroaniline	ND	ug/kg	1920	1	12/23/09 09:10	12/30/09 04:37	99-09-2	
4-Nitroaniline	ND	ug/kg	769	1	12/23/09 09:10	12/30/09 04:37	100-01-6	
Nitrobenzene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	98-95-3	
2-Nitrophenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	88-75-5	
4-Nitrophenol	ND	ug/kg	1920	1	12/23/09 09:10	12/30/09 04:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	86-30-6	
Pentachlorophenol	ND	ug/kg	1920	1	12/23/09 09:10	12/30/09 04:37	87-86-5	
Phenanthrene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	85-01-8	
Phenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	108-95-2	
Pyrene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	384	1	12/23/09 09:10	12/30/09 04:37	88-06-2	
Nitrobenzene-d5 (S)	31 %		30-150	1	12/23/09 09:10	12/30/09 04:37	4165-60-0	
2-Fluorobiphenyl (S)	28 %		46-120	1	12/23/09 09:10	12/30/09 04:37	321-60-8	S0
Terphenyl-d14 (S)	39 %		38-108	1	12/23/09 09:10	12/30/09 04:37	1718-51-0	
Phenol-d6 (S)	32 %		35-120	1	12/23/09 09:10	12/30/09 04:37	13127-88-3	S0
2-Fluorophenol (S)	30 %		24-120	1	12/23/09 09:10	12/30/09 04:37	367-12-4	
2,4,6-Tribromophenol (S)	45 %		44-136	1	12/23/09 09:10	12/30/09 04:37	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 72 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-3 Lab ID: 9259999017 Collected: 12/17/09 08:55 Received: 12/21/09 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						
Acetone	ND	ug/kg	89.7	1		12/25/09 01:48	67-64-1	
Benzene	ND	ug/kg	4.5	1		12/25/09 01:48	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/25/09 01:48	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/25/09 01:48	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/25/09 01:48	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/25/09 01:48	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		12/25/09 01:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.7	1		12/25/09 01:48	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/25/09 01:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/25/09 01:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/25/09 01:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/25/09 01:48	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/25/09 01:48	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		12/25/09 01:48	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/25/09 01:48	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		12/25/09 01:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/25/09 01:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		12/25/09 01:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		12/25/09 01:48	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		12/25/09 01:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/25/09 01:48	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/25/09 01:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/25/09 01:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/25/09 01:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/25/09 01:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		12/25/09 01:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/25/09 01:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/25/09 01:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/25/09 01:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/25/09 01:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/25/09 01:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/25/09 01:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/25/09 01:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/25/09 01:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/25/09 01:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/25/09 01:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/25/09 01:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		12/25/09 01:48	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		12/25/09 01:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/25/09 01:48	87-68-3	
2-Hexanone	ND	ug/kg	44.9	1		12/25/09 01:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		12/25/09 01:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/25/09 01:48	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/25/09 01:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.9	1		12/25/09 01:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/25/09 01:48	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 73 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2125-3 Lab ID: 9259999017 Collected: 12/17/09 08:55 Received: 12/21/09 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						
Naphthalene	ND ug/kg		4.5	1		12/25/09 01:48	91-20-3	
n-Propylbenzene	ND ug/kg		4.5	1		12/25/09 01:48	103-65-1	
Styrene	ND ug/kg		4.5	1		12/25/09 01:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		4.5	1		12/25/09 01:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.5	1		12/25/09 01:48	79-34-5	
Tetrachloroethene	ND ug/kg		4.5	1		12/25/09 01:48	127-18-4	
Toluene	ND ug/kg		4.5	1		12/25/09 01:48	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		4.5	1		12/25/09 01:48	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		4.5	1		12/25/09 01:48	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		4.5	1		12/25/09 01:48	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.5	1		12/25/09 01:48	79-00-5	
Trichloroethene	ND ug/kg		4.5	1		12/25/09 01:48	79-01-6	
Trichlorofluoromethane	ND ug/kg		4.5	1		12/25/09 01:48	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		4.5	1		12/25/09 01:48	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		4.5	1		12/25/09 01:48	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		4.5	1		12/25/09 01:48	108-67-8	
Vinyl acetate	ND ug/kg		44.9	1		12/25/09 01:48	108-05-4	
Vinyl chloride	ND ug/kg		9.0	1		12/25/09 01:48	75-01-4	
Xylene (Total)	ND ug/kg		9.0	1		12/25/09 01:48	1330-20-7	
m&p-Xylene	ND ug/kg		9.0	1		12/25/09 01:48	1330-20-7	
o-Xylene	ND ug/kg		4.5	1		12/25/09 01:48	95-47-6	
Dibromofluoromethane (S)	136 %		79-116	1		12/25/09 01:48	1868-53-7	S3
Toluene-d8 (S)	101 %		88-110	1		12/25/09 01:48	2037-26-5	
4-Bromofluorobenzene (S)	97 %		74-115	1		12/25/09 01:48	460-00-4	
1,2-Dichloroethane-d4 (S)	124 %		69-121	1		12/25/09 01:48	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.1 %		0.10	1		12/24/09 14:12		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-4 **Lab ID:** 9259999018 **Collected:** 12/17/09 08:45 **Received:** 12/21/09 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		6.0	1	12/28/09 16:30	12/29/09 19:16	68334-30-5	
n-Pentacosane (S)	84 %		50-135	1	12/28/09 16:30	12/29/09 19:16	629-99-2	

MADEP EPH NC Soil

Analytical Method: MADEP EPH Preparation Method: MADEP EPH

Aliphatic (C09-C18)	ND mg/kg		12.0	1	12/22/09 11:30	12/24/09 11:04		
Aliphatic (C19-C36)	ND mg/kg		12.0	1	12/22/09 11:30	12/24/09 11:04		
Aromatic (C11-C22)	ND mg/kg		12.0	1	12/22/09 11:30	12/24/09 11:04		
Nonatriacontane (S)	90 %		40-140	1	12/22/09 11:30	12/24/09 11:04	7194-86-7	
o-Terphenyl (S)	76 %		40-140	1	12/22/09 11:30	12/24/09 11:04	84-15-1	
2-Fluorobiphenyl (S)	89 %		40-140	1	12/22/09 11:30	12/24/09 11:04	321-60-8	
2-Bromonaphthalene (S)	90 %		40-140	1	12/22/09 11:30	12/24/09 11:04	580-13-2	

Gasoline Range Organics

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

Gasoline Range Organics	ND mg/kg		5.1	1	12/30/09 14:58	12/31/09 04:44	8006-61-9	
4-Bromofluorobenzene (S)	108 %		50-135	1	12/30/09 14:58	12/31/09 04:44	460-00-4	

8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Acenaphthene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	83-32-9	
Acenaphthylene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	208-96-8	
Aniline	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	62-53-3	
Anthracene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	207-08-9	
Benzoic Acid	ND ug/kg		1980	1	12/23/09 09:10	12/30/09 13:11	65-85-0	
Benzyl alcohol	ND ug/kg		791	1	12/23/09 09:10	12/30/09 13:11	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	101-55-3	
Butylbenzylphthalate	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		791	1	12/23/09 09:10	12/30/09 13:11	59-50-7	
4-Chloroaniline	ND ug/kg		1980	1	12/23/09 09:10	12/30/09 13:11	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	108-60-1	
2-Chloronaphthalene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	91-58-7	
2-Chlorophenol	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	7005-72-3	
Chrysene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	53-70-3	
Dibenzofuran	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		395	1	12/23/09 09:10	12/30/09 13:11	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1980	1	12/23/09 09:10	12/30/09 13:11	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-4 Lab ID: 9259999018 Collected: 12/17/09 08:45 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	120-83-2	
Diethylphthalate	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	105-67-9	
Dimethylphthalate	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	791	1	12/23/09 09:10	12/30/09 13:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1980	1	12/23/09 09:10	12/30/09 13:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	117-81-7	
Fluoranthene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	206-44-0	
Fluorene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	77-47-4	
Hexachloroethane	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	193-39-5	
Isophorone	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11		
Naphthalene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1980	1	12/23/09 09:10	12/30/09 13:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1980	1	12/23/09 09:10	12/30/09 13:11	99-09-2	
4-Nitroaniline	ND	ug/kg	791	1	12/23/09 09:10	12/30/09 13:11	100-01-6	
Nitrobenzene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	98-95-3	
2-Nitrophenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1980	1	12/23/09 09:10	12/30/09 13:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1980	1	12/23/09 09:10	12/30/09 13:11	87-86-5	
Phenanthrene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	85-01-8	
Phenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	108-95-2	
Pyrene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	1	12/23/09 09:10	12/30/09 13:11	88-06-2	
Nitrobenzene-d5 (S)	44 %		30-150	1	12/23/09 09:10	12/30/09 13:11	4165-60-0	
2-Fluorobiphenyl (S)	39 %		46-120	1	12/23/09 09:10	12/30/09 13:11	321-60-8	S0
Terphenyl-d14 (S)	43 %		38-108	1	12/23/09 09:10	12/30/09 13:11	1718-51-0	
Phenol-d6 (S)	44 %		35-120	1	12/23/09 09:10	12/30/09 13:11	13127-88-3	
2-Fluorophenol (S)	41 %		24-120	1	12/23/09 09:10	12/30/09 13:11	367-12-4	
2,4,6-Tribromophenol (S)	50 %		44-136	1	12/23/09 09:10	12/30/09 13:11	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 76 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-4 Lab ID: 9259999018 Collected: 12/17/09 08:45 Received: 12/21/09 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						
Acetone	ND	ug/kg	81.9	1		12/25/09 02:06	67-64-1	
Benzene	ND	ug/kg	4.1	1		12/25/09 02:06	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/25/09 02:06	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/25/09 02:06	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/25/09 02:06	75-25-2	
Bromomethane	ND	ug/kg	8.2	1		12/25/09 02:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	81.9	1		12/25/09 02:06	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/25/09 02:06	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	108-90-7	
Chloroethane	ND	ug/kg	8.2	1		12/25/09 02:06	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/25/09 02:06	67-66-3	
Chloromethane	ND	ug/kg	8.2	1		12/25/09 02:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 02:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/25/09 02:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		12/25/09 02:06	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		12/25/09 02:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/25/09 02:06	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/25/09 02:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.2	1		12/25/09 02:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 02:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 02:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/25/09 02:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 02:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 02:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/25/09 02:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 02:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 02:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/25/09 02:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		12/25/09 02:06	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/25/09 02:06	87-68-3	
2-Hexanone	ND	ug/kg	41.0	1		12/25/09 02:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/25/09 02:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/25/09 02:06	99-87-6	
Methylene Chloride	ND	ug/kg	16.4	1		12/25/09 02:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.0	1		12/25/09 02:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/25/09 02:06	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 77 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-4 **Lab ID:** 9259999018 **Collected:** 12/17/09 08:45 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.1	1		12/25/09 02:06	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/25/09 02:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/25/09 02:06	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/25/09 02:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/25/09 02:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/25/09 02:06	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/25/09 02:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/25/09 02:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/25/09 02:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/25/09 02:06	108-67-8	
Vinyl acetate	ND	ug/kg	41.0	1		12/25/09 02:06	108-05-4	
Vinyl chloride	ND	ug/kg	8.2	1		12/25/09 02:06	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		12/25/09 02:06	1330-20-7	
m&p-Xylene	ND	ug/kg	8.2	1		12/25/09 02:06	1330-20-7	
o-Xylene	ND	ug/kg	4.1	1		12/25/09 02:06	95-47-6	
Dibromofluoromethane (S)	135 %		79-116	1		12/25/09 02:06	1868-53-7	S3
Toluene-d8 (S)	102 %		88-110	1		12/25/09 02:06	2037-26-5	
4-Bromofluorobenzene (S)	97 %		74-115	1		12/25/09 02:06	460-00-4	
1,2-Dichloroethane-d4 (S)	126 %		69-121	1		12/25/09 02:06	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	16.5 %	0.10	1	12/24/09 14:13
------------------	---------------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-B-7 Lab ID: 9259999019 Collected: 12/17/09 10:00 Received: 12/21/09 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	507	mg/kg	11.8	2	12/28/09 16:30	12/30/09 11:09	68334-30-5	
n-Pentacosane (S)	112	%	50-135	2	12/28/09 16:30	12/30/09 11:09	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	61.9	mg/kg	23.7	2	12/22/09 11:30	12/29/09 13:03		
Aliphatic (C19-C36)	40.3	mg/kg	23.7	2	12/22/09 11:30	12/29/09 13:03		
Aromatic (C11-C22)	39.1	mg/kg	11.8	1	12/22/09 11:30	12/24/09 11:38		
Nonatriacontane (S)	91	%	40-140	2	12/22/09 11:30	12/29/09 13:03	7194-86-7	
o-Terphenyl (S)	126	%	40-140	1	12/22/09 11:30	12/24/09 11:38	84-15-1	
2-Fluorobiphenyl (S)	97	%	40-140	1	12/22/09 11:30	12/24/09 11:38	321-60-8	
2-Bromonaphthalene (S)	108	%	40-140	1	12/22/09 11:30	12/24/09 11:38	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.2	1	12/30/09 14:58	12/31/09 04:19	8006-61-9	
4-Bromofluorobenzene (S)	100	%	50-135	1	12/30/09 14:58	12/31/09 04:19	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	83-32-9	
Acenaphthylene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	208-96-8	
Aniline	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	62-53-3	
Anthracene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	12/23/09 09:10	12/30/09 13:41	65-85-0	
Benzyl alcohol	ND	ug/kg	781	1	12/23/09 09:10	12/30/09 13:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	781	1	12/23/09 09:10	12/30/09 13:41	59-50-7	
4-Chloroaniline	ND	ug/kg	1950	1	12/23/09 09:10	12/30/09 13:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	91-58-7	
2-Chlorophenol	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	7005-72-3	
Chrysene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	53-70-3	
Dibenzofuran	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	1	12/23/09 09:10	12/30/09 13:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	12/23/09 09:10	12/30/09 13:41	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2125-B-7 Lab ID: 9259999019 Collected: 12/17/09 10:00 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	120-83-2	
Diethylphthalate	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	84-66-2	
2,4-Dimethylphenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	105-67-9	
Dimethylphthalate	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	131-11-3	
Di-n-butylphthalate	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		781	1	12/23/09 09:10	12/30/09 13:41	534-52-1	
2,4-Dinitrophenol	ND ug/kg		1950	1	12/23/09 09:10	12/30/09 13:41	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	606-20-2	
Di-n-octylphthalate	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	117-81-7	
Fluoranthene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	206-44-0	
Fluorene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	87-68-3	
Hexachlorobenzene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	77-47-4	
Hexachloroethane	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	193-39-5	
Isophorone	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	78-59-1	
1-Methylnaphthalene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	90-12-0	
2-Methylnaphthalene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41		
Naphthalene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	91-20-3	
2-Nitroaniline	ND ug/kg		1950	1	12/23/09 09:10	12/30/09 13:41	88-74-4	
3-Nitroaniline	ND ug/kg		1950	1	12/23/09 09:10	12/30/09 13:41	99-09-2	
4-Nitroaniline	ND ug/kg		781	1	12/23/09 09:10	12/30/09 13:41	100-01-6	
Nitrobenzene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	98-95-3	
2-Nitrophenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	88-75-5	
4-Nitrophenol	ND ug/kg		1950	1	12/23/09 09:10	12/30/09 13:41	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	86-30-6	
Pentachlorophenol	ND ug/kg		1950	1	12/23/09 09:10	12/30/09 13:41	87-86-5	
Phenanthrene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	85-01-8	
Phenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	108-95-2	
Pyrene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		390	1	12/23/09 09:10	12/30/09 13:41	88-06-2	
Nitrobenzene-d5 (S)	44 %		30-150	1	12/23/09 09:10	12/30/09 13:41	4165-60-0	
2-Fluorobiphenyl (S)	34 %		46-120	1	12/23/09 09:10	12/30/09 13:41	321-60-8	S0
Terphenyl-d14 (S)	38 %		38-108	1	12/23/09 09:10	12/30/09 13:41	1718-51-0	
Phenol-d6 (S)	43 %		35-120	1	12/23/09 09:10	12/30/09 13:41	13127-88-3	
2-Fluorophenol (S)	41 %		24-120	1	12/23/09 09:10	12/30/09 13:41	367-12-4	
2,4,6-Tribromophenol (S)	52 %		44-136	1	12/23/09 09:10	12/30/09 13:41	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 80 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-B-7 Lab ID: 9259999019 Collected: 12/17/09 10:00 Received: 12/21/09 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						
Acetone	ND	ug/kg	94.3	1		12/25/09 02:24	67-64-1	
Benzene	ND	ug/kg	4.7	1		12/25/09 02:24	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/25/09 02:24	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/25/09 02:24	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/25/09 02:24	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		12/25/09 02:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.3	1		12/25/09 02:24	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/25/09 02:24	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		12/25/09 02:24	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/25/09 02:24	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		12/25/09 02:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/25/09 02:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		12/25/09 02:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		12/25/09 02:24	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		12/25/09 02:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/25/09 02:24	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/25/09 02:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		12/25/09 02:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		12/25/09 02:24	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/25/09 02:24	87-68-3	
2-Hexanone	ND	ug/kg	47.2	1		12/25/09 02:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		12/25/09 02:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/25/09 02:24	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		12/25/09 02:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.2	1		12/25/09 02:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/25/09 02:24	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 81 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2125-B-7 **Lab ID:** 9259999019 **Collected:** 12/17/09 10:00 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.7	1		12/25/09 02:24	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/25/09 02:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/25/09 02:24	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/25/09 02:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/25/09 02:24	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/25/09 02:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/25/09 02:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/25/09 02:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/25/09 02:24	108-67-8	
Vinyl acetate	ND	ug/kg	47.2	1		12/25/09 02:24	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		12/25/09 02:24	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		12/25/09 02:24	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		12/25/09 02:24	1330-20-7	
o-Xylene	ND	ug/kg	4.7	1		12/25/09 02:24	95-47-6	
Dibromofluoromethane (S)	145 %		79-116	1		12/25/09 02:24	1868-53-7	S3
Toluene-d8 (S)	95 %		88-110	1		12/25/09 02:24	2037-26-5	
4-Bromofluorobenzene (S)	87 %		74-115	1		12/25/09 02:24	460-00-4	
1,2-Dichloroethane-d4 (S)	133 %		69-121	1		12/25/09 02:24	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.5 %		0.10	1		12/24/09 14:13		

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-1 Lab ID: 9259999020 Collected: 12/17/09 17:00 Received: 12/21/09 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		5.6	1	12/28/09 16:30	12/29/09 19:45	68334-30-5	
n-Pentacosane (S)	72 %		50-135	1	12/28/09 16:30	12/29/09 19:45	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.2	1	12/22/09 11:30	12/24/09 12:12		
Aliphatic (C19-C36)	ND mg/kg		11.2	1	12/22/09 11:30	12/24/09 12:12		
Aromatic (C11-C22)	ND mg/kg		11.2	1	12/22/09 11:30	12/24/09 12:12		
Nonatriacontane (S)	62 %		40-140	1	12/22/09 11:30	12/24/09 12:12	7194-86-7	
o-Terphenyl (S)	78 %		40-140	1	12/22/09 11:30	12/24/09 12:12	84-15-1	
2-Fluorobiphenyl (S)	86 %		40-140	1	12/22/09 11:30	12/24/09 12:12	321-60-8	
2-Bromonaphthalene (S)	87 %		40-140	1	12/22/09 11:30	12/24/09 12:12	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.3	1	12/30/09 14:58	12/31/09 03:54	8006-61-9	
4-Bromofluorobenzene (S)	131 %		50-135	1	12/30/09 14:58	12/31/09 03:54	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	83-32-9	
Acenaphthylene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	208-96-8	
Aniline	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	62-53-3	
Anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	207-08-9	
Benzoic Acid	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:11	65-85-0	
Benzyl alcohol	ND ug/kg		740	1	12/29/09 16:20	12/30/09 20:11	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	101-55-3	
Butylbenzylphthalate	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		740	1	12/29/09 16:20	12/30/09 20:11	59-50-7	
4-Chloroaniline	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:11	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	108-60-1	
2-Chloronaphthalene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	91-58-7	
2-Chlorophenol	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	7005-72-3	
Chrysene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	53-70-3	
Dibenzofuran	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:11	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:11	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-1 Lab ID: 9259999020 Collected: 12/17/09 17:00 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	120-83-2	
Diethylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	105-67-9	
Dimethylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	740	1	12/29/09 16:20	12/30/09 20:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	117-81-7	
Fluoranthene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	206-44-0	
Fluorene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	77-47-4	
Hexachloroethane	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	193-39-5	
Isophorone	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11		
Naphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:11	99-09-2	
4-Nitroaniline	ND	ug/kg	740	1	12/29/09 16:20	12/30/09 20:11	100-01-6	
Nitrobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	98-95-3	
2-Nitrophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:11	87-86-5	
Phenanthrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	85-01-8	
Phenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	108-95-2	
Pyrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:11	88-06-2	
Nitrobenzene-d5 (S)	51 %		30-150	1	12/29/09 16:20	12/30/09 20:11	4165-60-0	
2-Fluorobiphenyl (S)	52 %		46-120	1	12/29/09 16:20	12/30/09 20:11	321-60-8	
Terphenyl-d14 (S)	59 %		38-108	1	12/29/09 16:20	12/30/09 20:11	1718-51-0	
Phenol-d6 (S)	51 %		35-120	1	12/29/09 16:20	12/30/09 20:11	13127-88-3	
2-Fluorophenol (S)	44 %		24-120	1	12/29/09 16:20	12/30/09 20:11	367-12-4	
2,4,6-Tribromophenol (S)	84 %		44-136	1	12/29/09 16:20	12/30/09 20:11	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 84 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-1 Lab ID: 9259999020 Collected: 12/17/09 17:00 Received: 12/21/09 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						
Acetone	ND	ug/kg	79.4	1		12/27/09 20:16	67-64-1	
Benzene	ND	ug/kg	4.0	1		12/27/09 20:16	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		12/27/09 20:16	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		12/27/09 20:16	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		12/27/09 20:16	75-27-4	
Bromoform	ND	ug/kg	4.0	1		12/27/09 20:16	75-25-2	
Bromomethane	ND	ug/kg	7.9	1		12/27/09 20:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	79.4	1		12/27/09 20:16	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 20:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 20:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		12/27/09 20:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		12/27/09 20:16	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		12/27/09 20:16	108-90-7	
Chloroethane	ND	ug/kg	7.9	1		12/27/09 20:16	75-00-3	
Chloroform	ND	ug/kg	4.0	1		12/27/09 20:16	67-66-3	
Chloromethane	ND	ug/kg	7.9	1		12/27/09 20:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		12/27/09 20:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		12/27/09 20:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		12/27/09 20:16	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		12/27/09 20:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		12/27/09 20:16	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		12/27/09 20:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 20:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 20:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		12/27/09 20:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.9	1		12/27/09 20:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		12/27/09 20:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		12/27/09 20:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 20:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 20:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		12/27/09 20:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 20:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 20:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		12/27/09 20:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 20:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 20:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		12/27/09 20:16	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		12/27/09 20:16	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		12/27/09 20:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		12/27/09 20:16	87-68-3	
2-Hexanone	ND	ug/kg	39.7	1		12/27/09 20:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		12/27/09 20:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		12/27/09 20:16	99-87-6	
Methylene Chloride	ND	ug/kg	15.9	1		12/27/09 20:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.7	1		12/27/09 20:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		12/27/09 20:16	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 85 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2117-1 Lab ID: 9259999020 Collected: 12/17/09 17:00 Received: 12/21/09 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						
Naphthalene	ND ug/kg		4.0	1		12/27/09 20:16	91-20-3	
n-Propylbenzene	ND ug/kg		4.0	1		12/27/09 20:16	103-65-1	
Styrene	ND ug/kg		4.0	1		12/27/09 20:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/kg		4.0	1		12/27/09 20:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.0	1		12/27/09 20:16	79-34-5	
Tetrachloroethene	ND ug/kg		4.0	1		12/27/09 20:16	127-18-4	
Toluene	ND ug/kg		4.0	1		12/27/09 20:16	108-88-3	
1,2,3-Trichlorobenzene	ND ug/kg		4.0	1		12/27/09 20:16	87-61-6	
1,2,4-Trichlorobenzene	ND ug/kg		4.0	1		12/27/09 20:16	120-82-1	
1,1,1-Trichloroethane	ND ug/kg		4.0	1		12/27/09 20:16	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.0	1		12/27/09 20:16	79-00-5	
Trichloroethene	ND ug/kg		4.0	1		12/27/09 20:16	79-01-6	
Trichlorofluoromethane	ND ug/kg		4.0	1		12/27/09 20:16	75-69-4	
1,2,3-Trichloropropane	ND ug/kg		4.0	1		12/27/09 20:16	96-18-4	
1,2,4-Trimethylbenzene	ND ug/kg		4.0	1		12/27/09 20:16	95-63-6	
1,3,5-Trimethylbenzene	ND ug/kg		4.0	1		12/27/09 20:16	108-67-8	
Vinyl acetate	ND ug/kg		39.7	1		12/27/09 20:16	108-05-4	
Vinyl chloride	ND ug/kg		7.9	1		12/27/09 20:16	75-01-4	
Xylene (Total)	ND ug/kg		7.9	1		12/27/09 20:16	1330-20-7	
m&p-Xylene	ND ug/kg		7.9	1		12/27/09 20:16	1330-20-7	
o-Xylene	ND ug/kg		4.0	1		12/27/09 20:16	95-47-6	
Dibromofluoromethane (S)	102 %		79-116	1		12/27/09 20:16	1868-53-7	
Toluene-d8 (S)	97 %		88-110	1		12/27/09 20:16	2037-26-5	
4-Bromofluorobenzene (S)	86 %		74-115	1		12/27/09 20:16	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		69-121	1		12/27/09 20:16	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	10.8 %	0.10	1	12/24/09 14:13
------------------	--------	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-2 **Lab ID:** 9259999021 **Collected:** 12/17/09 12:20 **Received:** 12/21/09 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	14.0 mg/kg		5.6	1	12/28/09 16:30	12/29/09 20:14	68334-30-5	
n-Pentacosane (S)	57 %		50-135	1	12/28/09 16:30	12/29/09 20:14	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 17:19		
Aliphatic (C19-C36)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 17:19		
Aromatic (C11-C22)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 17:19		
Nonatriacontane (S)	62 %		40-140	1	12/22/09 11:35	12/24/09 17:19	7194-86-7	
o-Terphenyl (S)	72 %		40-140	1	12/22/09 11:35	12/24/09 17:19	84-15-1	
2-Fluorobiphenyl (S)	90 %		40-140	1	12/22/09 11:35	12/24/09 17:19	321-60-8	
2-Bromonaphthalene (S)	93 %		40-140	1	12/22/09 11:35	12/24/09 17:19	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		5.5	1	12/30/09 14:58	12/31/09 03:05	8006-61-9	
4-Bromofluorobenzene (S)	111 %		50-135	1	12/30/09 14:58	12/31/09 03:05	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	83-32-9	
Acenaphthylene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	208-96-8	
Aniline	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	62-53-3	
Anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	120-12-7	
Benzo(a)anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	56-55-3	
Benzo(a)pyrene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	207-08-9	
Benzoic Acid	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:41	65-85-0	
Benzyl alcohol	ND ug/kg		739	1	12/29/09 16:20	12/30/09 20:41	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	101-55-3	
Butylbenzylphthalate	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		739	1	12/29/09 16:20	12/30/09 20:41	59-50-7	
4-Chloroaniline	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:41	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	108-60-1	
2-Chloronaphthalene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	91-58-7	
2-Chlorophenol	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	7005-72-3	
Chrysene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	53-70-3	
Dibenzofuran	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		370	1	12/29/09 16:20	12/30/09 20:41	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1850	1	12/29/09 16:20	12/30/09 20:41	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2117-2 Lab ID: 9259999021 Collected: 12/17/09 12:20 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
2,4-Dichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	120-83-2	
Diethylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	105-67-9	
Dimethylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	739	1	12/29/09 16:20	12/30/09 20:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	117-81-7	
Fluoranthene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	206-44-0	
Fluorene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	77-47-4	
Hexachloroethane	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	193-39-5	
Isophorone	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	78-59-1	
1-Methylnaphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	90-12-0	
2-Methylnaphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41		
Naphthalene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	91-20-3	
2-Nitroaniline	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:41	88-74-4	
3-Nitroaniline	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:41	99-09-2	
4-Nitroaniline	ND	ug/kg	739	1	12/29/09 16:20	12/30/09 20:41	100-01-6	
Nitrobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	98-95-3	
2-Nitrophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	88-75-5	
4-Nitrophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	86-30-6	
Pentachlorophenol	ND	ug/kg	1850	1	12/29/09 16:20	12/30/09 20:41	87-86-5	
Phenanthrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	85-01-8	
Phenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	108-95-2	
Pyrene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	370	1	12/29/09 16:20	12/30/09 20:41	88-06-2	
Nitrobenzene-d5 (S)	41	%	30-150	1	12/29/09 16:20	12/30/09 20:41	4165-60-0	
2-Fluorobiphenyl (S)	45	%	46-120	1	12/29/09 16:20	12/30/09 20:41	321-60-8	S0
Terphenyl-d14 (S)	53	%	38-108	1	12/29/09 16:20	12/30/09 20:41	1718-51-0	
Phenol-d6 (S)	41	%	35-120	1	12/29/09 16:20	12/30/09 20:41	13127-88-3	
2-Fluorophenol (S)	36	%	24-120	1	12/29/09 16:20	12/30/09 20:41	367-12-4	
2,4,6-Tribromophenol (S)	65	%	44-136	1	12/29/09 16:20	12/30/09 20:41	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 88 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-2 Lab ID: 9259999021 Collected: 12/17/09 12:20 Received: 12/21/09 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						
Acetone	ND	ug/kg	93.5	1		12/25/09 02:42	67-64-1	
Benzene	ND	ug/kg	4.7	1		12/25/09 02:42	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/25/09 02:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/25/09 02:42	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/25/09 02:42	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		12/25/09 02:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.5	1		12/25/09 02:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/25/09 02:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		12/25/09 02:42	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/25/09 02:42	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		12/25/09 02:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/25/09 02:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		12/25/09 02:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		12/25/09 02:42	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		12/25/09 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/25/09 02:42	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/25/09 02:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		12/25/09 02:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/25/09 02:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/25/09 02:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/25/09 02:42	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		12/25/09 02:42	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/25/09 02:42	87-68-3	
2-Hexanone	ND	ug/kg	46.7	1		12/25/09 02:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		12/25/09 02:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/25/09 02:42	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		12/25/09 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.7	1		12/25/09 02:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/25/09 02:42	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 89 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-2 Lab ID: 9259999021 Collected: 12/17/09 12:20 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	4.7	1		12/25/09 02:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/25/09 02:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/25/09 02:42	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/25/09 02:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/25/09 02:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/25/09 02:42	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/25/09 02:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/25/09 02:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/25/09 02:42	96-18-4	
1,2,4-Trimethylbenzene	5.7	ug/kg	4.7	1		12/25/09 02:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/25/09 02:42	108-67-8	
Vinyl acetate	ND	ug/kg	46.7	1		12/25/09 02:42	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		12/25/09 02:42	75-01-4	
Xylene (Total)	18.6	ug/kg	9.3	1		12/25/09 02:42	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		12/25/09 02:42	1330-20-7	
o-Xylene	11.8	ug/kg	4.7	1		12/25/09 02:42	95-47-6	
Dibromofluoromethane (S)	104	%	79-116	1		12/25/09 02:42	1868-53-7	
Toluene-d8 (S)	101	%	88-110	1		12/25/09 02:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	74-115	1		12/25/09 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	69-121	1		12/25/09 02:42	17060-07-0	S6

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	10.7	%	0.10	1	12/24/09 10:18
------------------	------	---	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-3 Lab ID: 9259999022 Collected: 12/17/09 12:45 Received: 12/21/09 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	11.8 mg/kg		5.6	1	12/28/09 16:30	12/29/09 20:14	68334-30-5	
n-Pentacosane (S)	78 %		50-135	1	12/28/09 16:30	12/29/09 20:14	629-99-2	

MADEP EPH NC Soil

Analytical Method: MADEP EPH Preparation Method: MADEP EPH

Aliphatic (C09-C18)	ND mg/kg		11.1	1	12/22/09 11:35	12/24/09 17:53		
Aliphatic (C19-C36)	ND mg/kg		11.1	1	12/22/09 11:35	12/24/09 17:53		
Aromatic (C11-C22)	ND mg/kg		11.1	1	12/22/09 11:35	12/24/09 17:53		
Nonatriacontane (S)	61 %		40-140	1	12/22/09 11:35	12/24/09 17:53	7194-86-7	
o-Terphenyl (S)	69 %		40-140	1	12/22/09 11:35	12/24/09 17:53	84-15-1	
2-Fluorobiphenyl (S)	98 %		40-140	1	12/22/09 11:35	12/24/09 17:53	321-60-8	
2-Bromonaphthalene (S)	97 %		40-140	1	12/22/09 11:35	12/24/09 17:53	580-13-2	

Gasoline Range Organics

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

Gasoline Range Organics	ND mg/kg		5.6	1	12/30/09 14:54	12/31/09 00:04	8006-61-9	
4-Bromofluorobenzene (S)	127 %		50-135	1	12/30/09 14:54	12/31/09 00:04	460-00-4	

8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Acenaphthene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	83-32-9	
Acenaphthylene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	208-96-8	
Aniline	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	62-53-3	
Anthracene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	207-08-9	
Benzoic Acid	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:11	65-85-0	
Benzyl alcohol	ND ug/kg		734	1	12/29/09 16:20	12/30/09 21:11	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	101-55-3	
Butylbenzylphthalate	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		734	1	12/29/09 16:20	12/30/09 21:11	59-50-7	
4-Chloroaniline	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:11	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	108-60-1	
2-Chloronaphthalene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	91-58-7	
2-Chlorophenol	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	7005-72-3	
Chrysene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	53-70-3	
Dibenzofuran	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		367	1	12/29/09 16:20	12/30/09 21:11	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:11	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2117-3 Lab ID: 9259999022 Collected: 12/17/09 12:45 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	120-83-2	
Diethylphthalate	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	105-67-9	
Dimethylphthalate	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	734	1	12/29/09 16:20	12/30/09 21:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	117-81-7	
Fluoranthene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	206-44-0	
Fluorene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	77-47-4	
Hexachloroethane	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	193-39-5	
Isophorone	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11		
Naphthalene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:11	99-09-2	
4-Nitroaniline	ND	ug/kg	734	1	12/29/09 16:20	12/30/09 21:11	100-01-6	
Nitrobenzene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	98-95-3	
2-Nitrophenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:11	87-86-5	
Phenanthrene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	85-01-8	
Phenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	108-95-2	
Pyrene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	367	1	12/29/09 16:20	12/30/09 21:11	88-06-2	
Nitrobenzene-d5 (S)	62 %		30-150	1	12/29/09 16:20	12/30/09 21:11	4165-60-0	
2-Fluorobiphenyl (S)	56 %		46-120	1	12/29/09 16:20	12/30/09 21:11	321-60-8	
Terphenyl-d14 (S)	53 %		38-108	1	12/29/09 16:20	12/30/09 21:11	1718-51-0	
Phenol-d6 (S)	59 %		35-120	1	12/29/09 16:20	12/30/09 21:11	13127-88-3	
2-Fluorophenol (S)	55 %		24-120	1	12/29/09 16:20	12/30/09 21:11	367-12-4	
2,4,6-Tribromophenol (S)	91 %		44-136	1	12/29/09 16:20	12/30/09 21:11	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 92 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-3 Lab ID: 9259999022 Collected: 12/17/09 12:45 Received: 12/21/09 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						
Acetone	ND	ug/kg	91.4	1		12/25/09 03:00	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/25/09 03:00	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/25/09 03:00	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/25/09 03:00	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/25/09 03:00	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		12/25/09 03:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.4	1		12/25/09 03:00	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/25/09 03:00	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		12/25/09 03:00	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/25/09 03:00	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		12/25/09 03:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/25/09 03:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/25/09 03:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/25/09 03:00	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/25/09 03:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/25/09 03:00	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/25/09 03:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		12/25/09 03:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/25/09 03:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/25/09 03:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/25/09 03:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/25/09 03:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/25/09 03:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/25/09 03:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/25/09 03:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/25/09 03:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/25/09 03:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/25/09 03:00	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/25/09 03:00	87-68-3	
2-Hexanone	ND	ug/kg	45.7	1		12/25/09 03:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/25/09 03:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/25/09 03:00	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		12/25/09 03:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.7	1		12/25/09 03:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/25/09 03:00	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 93 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2117-3 **Lab ID:** 9259999022 **Collected:** 12/17/09 12:45 **Received:** 12/21/09 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						
Naphthalene	ND	ug/kg	4.6	1		12/25/09 03:00	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/25/09 03:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/25/09 03:00	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/25/09 03:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/25/09 03:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/25/09 03:00	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/25/09 03:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/25/09 03:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/25/09 03:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/25/09 03:00	108-67-8	
Vinyl acetate	ND	ug/kg	45.7	1		12/25/09 03:00	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		12/25/09 03:00	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		12/25/09 03:00	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		12/25/09 03:00	1330-20-7	
o-Xylene	ND	ug/kg	4.6	1		12/25/09 03:00	95-47-6	
Dibromofluoromethane (S)	101	%	79-116	1		12/25/09 03:00	1868-53-7	
Toluene-d8 (S)	102	%	88-110	1		12/25/09 03:00	2037-26-5	
4-Bromofluorobenzene (S)	95	%	74-115	1		12/25/09 03:00	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	69-121	1		12/25/09 03:00	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	10.1	%	0.10	1		12/24/09 10:19
------------------	------	---	------	---	--	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-4 Lab ID: 9259999023 Collected: 12/17/09 12:30 Received: 12/21/09 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		5.6	1	12/28/09 16:30	12/29/09 20:43	68334-30-5	
n-Pentacosane (S)	72 %		50-135	1	12/28/09 16:30	12/29/09 20:43	629-99-2	
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 18:27		
Aliphatic (C19-C36)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 18:27		
Aromatic (C11-C22)	ND mg/kg		11.2	1	12/22/09 11:35	12/24/09 18:27		
Nonatriacontane (S)	55 %		40-140	1	12/22/09 11:35	12/24/09 18:27	7194-86-7	
o-Terphenyl (S)	61 %		40-140	1	12/22/09 11:35	12/24/09 18:27	84-15-1	
2-Fluorobiphenyl (S)	81 %		40-140	1	12/22/09 11:35	12/24/09 18:27	321-60-8	
2-Bromonaphthalene (S)	81 %		40-140	1	12/22/09 11:35	12/24/09 18:27	580-13-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND mg/kg		6.4	1	12/30/09 14:54	12/30/09 23:40	8006-61-9	
4-Bromofluorobenzene (S)	131 %		50-135	1	12/30/09 14:54	12/30/09 23:40	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	83-32-9	
Acenaphthylene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	208-96-8	
Aniline	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	62-53-3	
Anthracene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	120-12-7	
Benzo(a)anthracene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	56-55-3	
Benzo(a)pyrene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	207-08-9	
Benzoic Acid	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:41	65-85-0	
Benzyl alcohol	ND ug/kg		737	1	12/29/09 16:20	12/30/09 21:41	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	101-55-3	
Butylbenzylphthalate	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		737	1	12/29/09 16:20	12/30/09 21:41	59-50-7	
4-Chloroaniline	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:41	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	108-60-1	
2-Chloronaphthalene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	91-58-7	
2-Chlorophenol	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	7005-72-3	
Chrysene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	53-70-3	
Dibenzofuran	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		368	1	12/29/09 16:20	12/30/09 21:41	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		1840	1	12/29/09 16:20	12/30/09 21:41	91-94-1	

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-4 Lab ID: 9259999023 Collected: 12/17/09 12:30 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	120-83-2	
Diethylphthalate	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	105-67-9	
Dimethylphthalate	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	737	1	12/29/09 16:20	12/30/09 21:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	117-81-7	
Fluoranthene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	206-44-0	
Fluorene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	77-47-4	
Hexachloroethane	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	193-39-5	
Isophorone	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	78-59-1	
1-Methylnaphthalene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	90-12-0	
2-Methylnaphthalene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41		
Naphthalene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	91-20-3	
2-Nitroaniline	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:41	88-74-4	
3-Nitroaniline	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:41	99-09-2	
4-Nitroaniline	ND	ug/kg	737	1	12/29/09 16:20	12/30/09 21:41	100-01-6	
Nitrobenzene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	98-95-3	
2-Nitrophenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	88-75-5	
4-Nitrophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	86-30-6	
Pentachlorophenol	ND	ug/kg	1840	1	12/29/09 16:20	12/30/09 21:41	87-86-5	
Phenanthrene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	85-01-8	
Phenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	108-95-2	
Pyrene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	1	12/29/09 16:20	12/30/09 21:41	88-06-2	
Nitrobenzene-d5 (S)	66 %		30-150	1	12/29/09 16:20	12/30/09 21:41	4165-60-0	
2-Fluorobiphenyl (S)	61 %		46-120	1	12/29/09 16:20	12/30/09 21:41	321-60-8	
Terphenyl-d14 (S)	57 %		38-108	1	12/29/09 16:20	12/30/09 21:41	1718-51-0	
Phenol-d6 (S)	65 %		35-120	1	12/29/09 16:20	12/30/09 21:41	13127-88-3	
2-Fluorophenol (S)	60 %		24-120	1	12/29/09 16:20	12/30/09 21:41	367-12-4	
2,4,6-Tribromophenol (S)	94 %		44-136	1	12/29/09 16:20	12/30/09 21:41	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 96 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-4 Lab ID: 9259999023 Collected: 12/17/09 12:30 Received: 12/21/09 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						
Acetone	ND	ug/kg	78.2	1		12/25/09 03:19	67-64-1	
Benzene	ND	ug/kg	3.9	1		12/25/09 03:19	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		12/25/09 03:19	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		12/25/09 03:19	75-27-4	
Bromoform	ND	ug/kg	3.9	1		12/25/09 03:19	75-25-2	
Bromomethane	ND	ug/kg	7.8	1		12/25/09 03:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	78.2	1		12/25/09 03:19	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.9	1		12/25/09 03:19	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	108-90-7	
Chloroethane	ND	ug/kg	7.8	1		12/25/09 03:19	75-00-3	
Chloroform	ND	ug/kg	3.9	1		12/25/09 03:19	67-66-3	
Chloromethane	ND	ug/kg	7.8	1		12/25/09 03:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		12/25/09 03:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		12/25/09 03:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.9	1		12/25/09 03:19	96-12-8	
Dibromochloromethane	ND	ug/kg	3.9	1		12/25/09 03:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		12/25/09 03:19	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		12/25/09 03:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.8	1		12/25/09 03:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		12/25/09 03:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/25/09 03:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/25/09 03:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		12/25/09 03:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		12/25/09 03:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		12/25/09 03:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		12/25/09 03:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/25/09 03:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/25/09 03:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.9	1		12/25/09 03:19	108-20-3	
Ethylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		12/25/09 03:19	87-68-3	
2-Hexanone	ND	ug/kg	39.1	1		12/25/09 03:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		12/25/09 03:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		12/25/09 03:19	99-87-6	
Methylene Chloride	ND	ug/kg	15.6	1		12/25/09 03:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.1	1		12/25/09 03:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		12/25/09 03:19	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 97 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank

Pace Project No.: 9259999

Sample: TT-2117-4 Lab ID: 9259999023 Collected: 12/17/09 12:30 Received: 12/21/09 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						
Naphthalene	ND	ug/kg	3.9	1		12/25/09 03:19	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	103-65-1	
Styrene	ND	ug/kg	3.9	1		12/25/09 03:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		12/25/09 03:19	127-18-4	
Toluene	ND	ug/kg	3.9	1		12/25/09 03:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		12/25/09 03:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		12/25/09 03:19	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		12/25/09 03:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		12/25/09 03:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		12/25/09 03:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		12/25/09 03:19	108-67-8	
Vinyl acetate	ND	ug/kg	39.1	1		12/25/09 03:19	108-05-4	
Vinyl chloride	ND	ug/kg	7.8	1		12/25/09 03:19	75-01-4	
Xylene (Total)	ND	ug/kg	7.8	1		12/25/09 03:19	1330-20-7	
m&p-Xylene	ND	ug/kg	7.8	1		12/25/09 03:19	1330-20-7	
o-Xylene	ND	ug/kg	3.9	1		12/25/09 03:19	95-47-6	
Dibromofluoromethane (S)	102	%	79-116	1		12/25/09 03:19	1868-53-7	
Toluene-d8 (S)	103	%	88-110	1		12/25/09 03:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	74-115	1		12/25/09 03:19	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	69-121	1		12/25/09 03:19	17060-07-0	S3

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	10.4	%	0.10	1		12/24/09 10:19
------------------	------	---	------	---	--	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-B-8 Lab ID: 9259999024 Collected: 12/18/09 07:10 Received: 12/21/09 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	1730 mg/kg		64.3	10	12/28/09 16:30	12/30/09 11:09	68334-30-5	
n-Pentacosane (S)	0 %		50-135	10	12/28/09 16:30	12/30/09 11:09	629-99-2	S4
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Aliphatic (C09-C18)	2480 mg/kg		643	50	12/22/09 11:35	12/29/09 13:37		
Aliphatic (C19-C36)	ND mg/kg		643	50	12/22/09 11:35	12/29/09 13:37		
Aromatic (C11-C22)	985 mg/kg		129	10	12/22/09 11:35	12/29/09 13:37		
Nonatriacontane (S)	0 %		40-140	50	12/22/09 11:35	12/29/09 13:37	7194-86-7	S4
o-Terphenyl (S)	0 %		40-140	10	12/22/09 11:35	12/29/09 13:37	84-15-1	S4
2-Fluorobiphenyl (S)	0 %		40-140	10	12/22/09 11:35	12/29/09 13:37	321-60-8	S4
2-Bromonaphthalene (S)	0 %		40-140	10	12/22/09 11:35	12/29/09 13:37	580-13-2	S4
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	23.9 mg/kg		5.0	1	12/30/09 14:58	12/31/09 05:58	8006-61-9	
4-Bromofluorobenzene (S)	144 %		50-135	1	12/30/09 14:58	12/31/09 05:58	460-00-4	S5
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	83-32-9	
Acenaphthylene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	208-96-8	
Aniline	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	62-53-3	
Anthracene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	120-12-7	
Benzo(a)anthracene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	56-55-3	
Benzo(a)pyrene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	207-08-9	
Benzoic Acid	ND ug/kg		2120	1	01/07/10 09:30	01/07/10 20:06	65-85-0	
Benzyl alcohol	ND ug/kg		849	1	01/07/10 09:30	01/07/10 20:06	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	101-55-3	
Butylbenzylphthalate	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		849	1	01/07/10 09:30	01/07/10 20:06	59-50-7	
4-Chloroaniline	ND ug/kg		2120	1	01/07/10 09:30	01/07/10 20:06	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	108-60-1	
2-Chloronaphthalene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	91-58-7	
2-Chlorophenol	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	7005-72-3	
Chrysene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	53-70-3	
Dibenzofuran	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		425	1	01/07/10 09:30	01/07/10 20:06	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		2120	1	01/07/10 09:30	01/07/10 20:06	91-94-1	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 99 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-B-8 Lab ID: 9259999024 Collected: 12/18/09 07:10 Received: 12/21/09 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
2,4-Dichlorophenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	120-83-2	
Diethylphthalate	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	105-67-9	
Dimethylphthalate	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	131-11-3	
Di-n-butylphthalate	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	849	1	01/07/10 09:30	01/07/10 20:06	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2120	1	01/07/10 09:30	01/07/10 20:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	606-20-2	
Di-n-octylphthalate	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	117-81-7	
Fluoranthene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	206-44-0	
Fluorene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	87-68-3	
Hexachlorobenzene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	77-47-4	
Hexachloroethane	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	193-39-5	
Isophorone	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	78-59-1	
1-Methylnaphthalene	4170	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	90-12-0	
2-Methylnaphthalene	6430	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	91-57-6	E
2-Methylphenol(o-Cresol)	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06		
Naphthalene	2570	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	91-20-3	
2-Nitroaniline	ND	ug/kg	2120	1	01/07/10 09:30	01/07/10 20:06	88-74-4	
3-Nitroaniline	ND	ug/kg	2120	1	01/07/10 09:30	01/07/10 20:06	99-09-2	
4-Nitroaniline	ND	ug/kg	849	1	01/07/10 09:30	01/07/10 20:06	100-01-6	
Nitrobenzene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	98-95-3	
2-Nitrophenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	88-75-5	
4-Nitrophenol	ND	ug/kg	2120	1	01/07/10 09:30	01/07/10 20:06	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	86-30-6	
Pentachlorophenol	ND	ug/kg	2120	1	01/07/10 09:30	01/07/10 20:06	87-86-5	
Phenanthrene	605	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	85-01-8	
Phenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	108-95-2	
Pyrene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	425	1	01/07/10 09:30	01/07/10 20:06	88-06-2	
Nitrobenzene-d5 (S)	89 %		30-150	1	01/07/10 09:30	01/07/10 20:06	4165-60-0	
2-Fluorobiphenyl (S)	48 %		46-120	1	01/07/10 09:30	01/07/10 20:06	321-60-8	
Terphenyl-d14 (S)	56 %		38-108	1	01/07/10 09:30	01/07/10 20:06	1718-51-0	
Phenol-d6 (S)	48 %		35-120	1	01/07/10 09:30	01/07/10 20:06	13127-88-3	
2-Fluorophenol (S)	46 %		24-120	1	01/07/10 09:30	01/07/10 20:06	367-12-4	
2,4,6-Tribromophenol (S)	108 %		44-136	1	01/07/10 09:30	01/07/10 20:06	118-79-6	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 100 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-B-8 Lab ID: 9259999024 Collected: 12/18/09 07:10 Received: 12/21/09 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						
Acetone	ND	ug/kg	4360	50		12/25/09 06:57	67-64-1	
Benzene	ND	ug/kg	218	50		12/25/09 06:57	71-43-2	
Bromobenzene	ND	ug/kg	218	50		12/25/09 06:57	108-86-1	
Bromochloromethane	ND	ug/kg	218	50		12/25/09 06:57	74-97-5	
Bromodichloromethane	ND	ug/kg	218	50		12/25/09 06:57	75-27-4	
Bromoform	ND	ug/kg	218	50		12/25/09 06:57	75-25-2	
Bromomethane	ND	ug/kg	436	50		12/25/09 06:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	4360	50		12/25/09 06:57	78-93-3	
n-Butylbenzene	573	ug/kg	218	50		12/25/09 06:57	104-51-8	
sec-Butylbenzene	425	ug/kg	218	50		12/25/09 06:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	218	50		12/25/09 06:57	98-06-6	
Carbon tetrachloride	ND	ug/kg	218	50		12/25/09 06:57	56-23-5	
Chlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	108-90-7	
Chloroethane	ND	ug/kg	436	50		12/25/09 06:57	75-00-3	
Chloroform	ND	ug/kg	218	50		12/25/09 06:57	67-66-3	
Chloromethane	ND	ug/kg	436	50		12/25/09 06:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	218	50		12/25/09 06:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	218	50		12/25/09 06:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	218	50		12/25/09 06:57	96-12-8	
Dibromochloromethane	ND	ug/kg	218	50		12/25/09 06:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	218	50		12/25/09 06:57	106-93-4	
Dibromomethane	ND	ug/kg	218	50		12/25/09 06:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	436	50		12/25/09 06:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	218	50		12/25/09 06:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	218	50		12/25/09 06:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	218	50		12/25/09 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	218	50		12/25/09 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	218	50		12/25/09 06:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	218	50		12/25/09 06:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	218	50		12/25/09 06:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	218	50		12/25/09 06:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	218	50		12/25/09 06:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	218	50		12/25/09 06:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	218	50		12/25/09 06:57	10061-02-6	
Diisopropyl ether	ND	ug/kg	218	50		12/25/09 06:57	108-20-3	
Ethylbenzene	ND	ug/kg	218	50		12/25/09 06:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	218	50		12/25/09 06:57	87-68-3	
2-Hexanone	ND	ug/kg	2180	50		12/25/09 06:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	218	50		12/25/09 06:57	98-82-8	
p-Isopropyltoluene	649	ug/kg	218	50		12/25/09 06:57	99-87-6	
Methylene Chloride	ND	ug/kg	872	50		12/25/09 06:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	2180	50		12/25/09 06:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	218	50		12/25/09 06:57	1634-04-4	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 101 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-2117-B-8 Lab ID: 9259999024 Collected: 12/18/09 07:10 Received: 12/21/09 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						
Naphthalene	1370	ug/kg	218	50		12/25/09 06:57	91-20-3	
n-Propylbenzene	265	ug/kg	218	50		12/25/09 06:57	103-65-1	
Styrene	ND	ug/kg	218	50		12/25/09 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	218	50		12/25/09 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	218	50		12/25/09 06:57	79-34-5	
Tetrachloroethene	ND	ug/kg	218	50		12/25/09 06:57	127-18-4	
Toluene	ND	ug/kg	218	50		12/25/09 06:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	218	50		12/25/09 06:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	218	50		12/25/09 06:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	218	50		12/25/09 06:57	79-00-5	
Trichloroethene	ND	ug/kg	218	50		12/25/09 06:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	218	50		12/25/09 06:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	218	50		12/25/09 06:57	96-18-4	
1,2,4-Trimethylbenzene	2520	ug/kg	218	50		12/25/09 06:57	95-63-6	
1,3,5-Trimethylbenzene	790	ug/kg	218	50		12/25/09 06:57	108-67-8	
Vinyl acetate	ND	ug/kg	2180	50		12/25/09 06:57	108-05-4	
Vinyl chloride	ND	ug/kg	436	50		12/25/09 06:57	75-01-4	
Xylene (Total)	1560	ug/kg	436	50		12/25/09 06:57	1330-20-7	
m&p-Xylene	1030	ug/kg	436	50		12/25/09 06:57	1330-20-7	
o-Xylene	531	ug/kg	218	50		12/25/09 06:57	95-47-6	
Dibromofluoromethane (S)	100	%	79-116	50		12/25/09 06:57	1868-53-7	D3
Toluene-d8 (S)	102	%	88-110	50		12/25/09 06:57	2037-26-5	
4-Bromofluorobenzene (S)	94	%	74-115	50		12/25/09 06:57	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	69-121	50		12/25/09 06:57	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	22.3	%	0.10	1	12/24/09 10:19
------------------	------	---	------	---	----------------

ANALYTICAL RESULTS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

Sample: TT-Stockpile #6 Lab ID: 9259999025 Collected: 12/18/09 14:30 Received: 12/21/09 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	11.2	mg/kg	5.8	1	12/28/09 16:30	12/29/09 21:11	68334-30-5	
n-Pentacosane (S)	65	%	50-135	1	12/28/09 16:30	12/29/09 21:11	629-99-2	
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	66.9	mg/kg	5.2	1	12/30/09 14:58	12/31/09 06:23	8006-61-9	
4-Bromofluorobenzene (S)	150	%	50-135	1	12/30/09 14:58	12/31/09 06:23	460-00-4	S5
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	13.9	%	0.10	1		12/24/09 10:20		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8867 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005, 9259999006, 9259999007, 9259999008

METHOD BLANK: 382783 Matrix: Solid
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005, 9259999006, 9259999007, 9259999008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	12/22/09 18:46	
n-Pentacosane (S)	%	62	50-135	12/22/09 18:46	

LABORATORY CONTROL SAMPLE & LCSD: 382784		382785								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Components	mg/kg	167	136	125	81		50-114	8		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 382786		382787									
Parameter	Units	9259999006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	191	191	104	153	55	80	50-107	38	R1
n-Pentacosane (S)	%						57	82	50-135		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch:	OEXT/8914	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015 Solid GCSV
Associated Lab Samples:	9259999009, 9259999010, 9259999011, 9259999012, 9259999013, 9259999014, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020, 9259999021, 9259999022, 9259999023, 9259999024, 9259999025		

METHOD BLANK:	384551	Matrix:	Solid
Associated Lab Samples:	9259999009, 9259999010, 9259999011, 9259999012, 9259999013, 9259999014, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020, 9259999021, 9259999022, 9259999023, 9259999024, 9259999025		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	12/29/09 15:26	
n-Pentacosane (S)	%	57	50-135	12/29/09 15:26	

LABORATORY CONTROL SAMPLE & LCSD:		384552								
		384553								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Components	mg/kg	167	105	122	63		50-114	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:											
384554					384555						
		9259999012	MS Spike	MSD Spike							
Parameter	Units	Result	Conc.	Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	188	188	152	157	81	83	50-107	3	
n-Pentacosane (S)	%						79	81	50-135		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8861 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005, 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999011, 9259999012, 9259999013

METHOD BLANK: 382498 Matrix: Solid
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005, 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999011, 9259999012, 9259999013, 9259999014, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	12/23/09 23:12	
Aliphatic (C19-C36)	mg/kg	ND	10.0	12/23/09 23:12	
Aromatic (C11-C22)	mg/kg	ND	10.0	12/23/09 23:12	
2-Bromonaphthalene (S)	%	93	40-140	12/23/09 23:12	
2-Fluorobiphenyl (S)	%	93	40-140	12/23/09 23:12	
Nonatriacontane (S)	%	92	40-140	12/23/09 23:12	
o-Terphenyl (S)	%	78	40-140	12/23/09 23:12	

LABORATORY CONTROL SAMPLE & LCSD: 382499		382500								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	55	78	40-140		50	
Aliphatic (C19-C36)	mg/kg	13.3	ND	11.5	64	86	40-140		50	
Aromatic (C11-C22)	mg/kg	28.3	25.2	25.3	89	89	40-140	0	50	
2-Bromonaphthalene (S)	%				89	83	40-140			
2-Fluorobiphenyl (S)	%				89	81	40-140			
Nonatriacontane (S)	%				64	82	40-140			
o-Terphenyl (S)	%				83	76	40-140			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8862 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 9259999021, 9259999022, 9259999023, 9259999024

METHOD BLANK: 382501 Matrix: Solid
Associated Lab Samples: 9259999021, 9259999022, 9259999023, 9259999024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	12/24/09 15:39	
Aliphatic (C19-C36)	mg/kg	ND	10.0	12/24/09 15:39	
Aromatic (C11-C22)	mg/kg	ND	10.0	12/24/09 15:39	
2-Bromonaphthalene (S)	%	83	40-140	12/24/09 15:39	
2-Fluorobiphenyl (S)	%	82	40-140	12/24/09 15:39	
Nonatriacontane (S)	%	86	40-140	12/24/09 15:39	
o-Terphenyl (S)	%	80	40-140	12/24/09 15:39	

LABORATORY CONTROL SAMPLE & LCSD: 382502		382503								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	86	97	40-140		50	
Aliphatic (C19-C36)	mg/kg	13.3	13.1	14.5	98	109	40-140	10	50	
Aromatic (C11-C22)	mg/kg	28.3	24.3	28.2	86	100	40-140	15	50	
2-Bromonaphthalene (S)	%				84	101	40-140			
2-Fluorobiphenyl (S)	%				85	102	40-140			
Nonatriacontane (S)	%				94	100	40-140			
o-Terphenyl (S)	%				75	87	40-140			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: GCV/3714 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005

METHOD BLANK: 384616 Matrix: Solid
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/29/09 12:47	
4-Bromofluorobenzene (S)	%	108	50-135	12/29/09 12:47	

LABORATORY CONTROL SAMPLE: 384617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	33.1	132	70-150	
4-Bromofluorobenzene (S)	%			115	50-135	

MATRIX SPIKE SAMPLE: 384618

Parameter	Units	9259783001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	26.9	34.5	113	70-148	
4-Bromofluorobenzene (S)	%				100	50-135	

SAMPLE DUPLICATE: 384619

Parameter	Units	9259783002 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	91	121	28	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch:	GCV/3719	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	9259999010		

METHOD BLANK: 384922 Matrix: Solid
Associated Lab Samples: 9259999010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/29/09 20:35	
4-Bromofluorobenzene (S)	%	98	50-135	12/29/09 20:35	

LABORATORY CONTROL SAMPLE: 384923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	27.5	110	70-150	
4-Bromofluorobenzene (S)	%			98	50-135	

MATRIX SPIKE SAMPLE: 384924

Parameter	Units	9259825014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	28.1	31.2	111	70-148	
4-Bromofluorobenzene (S)	%				106	50-135	

SAMPLE DUPLICATE: 384925

Parameter	Units	9259825015 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	121	111	9	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: GCV/3722 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9259999006, 9259999007, 9259999008, 9259999009

METHOD BLANK: 384988 Matrix: Solid
Associated Lab Samples: 9259999006, 9259999007, 9259999008, 9259999009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/30/09 02:00	
4-Bromofluorobenzene (S)	%	124	50-135	12/30/09 02:00	

LABORATORY CONTROL SAMPLE: 384989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	30.0	120	70-150	
4-Bromofluorobenzene (S)	%			113	50-135	

MATRIX SPIKE SAMPLE: 384990

Parameter	Units	9259783021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	39.2	54.9	131	70-148	
4-Bromofluorobenzene (S)	%				111	50-135	

SAMPLE DUPLICATE: 384991

Parameter	Units	9259999009 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	131	113	15	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: GCV/3726 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9259999015, 9259999022, 9259999023

METHOD BLANK: 385369 Matrix: Solid

Associated Lab Samples: 9259999015, 9259999022, 9259999023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/30/09 15:25	
4-Bromofluorobenzene (S)	%	106	50-135	12/30/09 15:25	

LABORATORY CONTROL SAMPLE: 385370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	33.9	136	70-150	
4-Bromofluorobenzene (S)	%			105	50-135	

MATRIX SPIKE SAMPLE: 385371

Parameter	Units	9259951003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	7.6	23.5	31.5	102	70-148	H5
4-Bromofluorobenzene (S)	%				109	50-135	

SAMPLE DUPLICATE: 385372

Parameter	Units	9260126005 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	16.9	16.2	4	
4-Bromofluorobenzene (S)	%	134	111	19	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: GCV/3728 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9259999011, 9259999012, 9259999013, 9259999014, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020, 9259999021, 9259999024, 9259999025

METHOD BLANK: 385470 Matrix: Solid
Associated Lab Samples: 9259999011, 9259999012, 9259999013, 9259999014, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020, 9259999021, 9259999024, 9259999025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/31/09 01:50	
4-Bromofluorobenzene (S)	%	97	50-135	12/31/09 01:50	

LABORATORY CONTROL SAMPLE: 385471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	50.2	100	70-150	
4-Bromofluorobenzene (S)	%			90	50-135	

MATRIX SPIKE SAMPLE: 385472

Parameter	Units	9259999017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	41.9	47.2	112	70-148	
4-Bromofluorobenzene (S)	%				96	50-135	

SAMPLE DUPLICATE: 385473

Parameter	Units	9259999021 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	111	124	11	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8877 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999006, 9259999008, 9259999009, 9259999012, 9259999015, 9259999017, 9259999018, 9259999019

METHOD BLANK: 383165 Matrix: Solid
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999006, 9259999008, 9259999009, 9259999012, 9259999015, 9259999017, 9259999018, 9259999019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	12/29/09 17:41	
1,2-Dichlorobenzene	ug/kg	ND	330	12/29/09 17:41	
1,3-Dichlorobenzene	ug/kg	ND	330	12/29/09 17:41	
1,4-Dichlorobenzene	ug/kg	ND	330	12/29/09 17:41	
1-Methylnaphthalene	ug/kg	ND	330	12/29/09 17:41	
2,4,5-Trichlorophenol	ug/kg	ND	330	12/29/09 17:41	
2,4,6-Trichlorophenol	ug/kg	ND	330	12/29/09 17:41	
2,4-Dichlorophenol	ug/kg	ND	330	12/29/09 17:41	
2,4-Dimethylphenol	ug/kg	ND	330	12/29/09 17:41	
2,4-Dinitrophenol	ug/kg	ND	1650	12/29/09 17:41	
2,4-Dinitrotoluene	ug/kg	ND	330	12/29/09 17:41	
2,6-Dinitrotoluene	ug/kg	ND	330	12/29/09 17:41	
2-Chloronaphthalene	ug/kg	ND	330	12/29/09 17:41	
2-Chlorophenol	ug/kg	ND	330	12/29/09 17:41	
2-Methylnaphthalene	ug/kg	ND	330	12/29/09 17:41	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	12/29/09 17:41	
2-Nitroaniline	ug/kg	ND	1650	12/29/09 17:41	
2-Nitrophenol	ug/kg	ND	330	12/29/09 17:41	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	12/29/09 17:41	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	12/29/09 17:41	
3-Nitroaniline	ug/kg	ND	1650	12/29/09 17:41	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	12/29/09 17:41	
4-Bromophenylphenyl ether	ug/kg	ND	330	12/29/09 17:41	
4-Chloro-3-methylphenol	ug/kg	ND	660	12/29/09 17:41	
4-Chloroaniline	ug/kg	ND	1650	12/29/09 17:41	
4-Chlorophenylphenyl ether	ug/kg	ND	330	12/29/09 17:41	
4-Nitroaniline	ug/kg	ND	660	12/29/09 17:41	
4-Nitrophenol	ug/kg	ND	1650	12/29/09 17:41	
Acenaphthene	ug/kg	ND	330	12/29/09 17:41	
Acenaphthylene	ug/kg	ND	330	12/29/09 17:41	
Aniline	ug/kg	ND	330	12/29/09 17:41	
Anthracene	ug/kg	ND	330	12/29/09 17:41	
Benzo(a)anthracene	ug/kg	ND	330	12/29/09 17:41	
Benzo(a)pyrene	ug/kg	ND	330	12/29/09 17:41	
Benzo(b)fluoranthene	ug/kg	ND	330	12/29/09 17:41	
Benzo(g,h,i)perylene	ug/kg	ND	330	12/29/09 17:41	
Benzo(k)fluoranthene	ug/kg	ND	330	12/29/09 17:41	
Benzoic Acid	ug/kg	ND	1650	12/29/09 17:41	
Benzyl alcohol	ug/kg	ND	660	12/29/09 17:41	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	12/29/09 17:41	
bis(2-Chloroethyl) ether	ug/kg	ND	330	12/29/09 17:41	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 383165

Matrix: Solid

Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999006, 9259999008, 9259999009, 9259999012, 9259999015, 9259999017, 9259999018, 9259999019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	12/29/09 17:41	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	12/29/09 17:41	
Butylbenzylphthalate	ug/kg	ND	330	12/29/09 17:41	
Chrysene	ug/kg	ND	330	12/29/09 17:41	
Di-n-butylphthalate	ug/kg	ND	330	12/29/09 17:41	
Di-n-octylphthalate	ug/kg	ND	330	12/29/09 17:41	
Dibenz(a,h)anthracene	ug/kg	ND	330	12/29/09 17:41	
Dibenzofuran	ug/kg	ND	330	12/29/09 17:41	
Diethylphthalate	ug/kg	ND	330	12/29/09 17:41	
Dimethylphthalate	ug/kg	ND	330	12/29/09 17:41	
Fluoranthene	ug/kg	ND	330	12/29/09 17:41	
Fluorene	ug/kg	ND	330	12/29/09 17:41	
Hexachloro-1,3-butadiene	ug/kg	ND	330	12/29/09 17:41	
Hexachlorobenzene	ug/kg	ND	330	12/29/09 17:41	
Hexachlorocyclopentadiene	ug/kg	ND	330	12/29/09 17:41	
Hexachloroethane	ug/kg	ND	330	12/29/09 17:41	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	12/29/09 17:41	
Isophorone	ug/kg	ND	330	12/29/09 17:41	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	12/29/09 17:41	
N-Nitrosodimethylamine	ug/kg	ND	330	12/29/09 17:41	
N-Nitrosodiphenylamine	ug/kg	ND	330	12/29/09 17:41	
Naphthalene	ug/kg	ND	330	12/29/09 17:41	
Nitrobenzene	ug/kg	ND	330	12/29/09 17:41	
Pentachlorophenol	ug/kg	ND	1650	12/29/09 17:41	
Phenanthrene	ug/kg	ND	330	12/29/09 17:41	
Phenol	ug/kg	ND	330	12/29/09 17:41	
Pyrene	ug/kg	ND	330	12/29/09 17:41	
2,4,6-Tribromophenol (S)	%	59	44-136	12/29/09 17:41	
2-Fluorobiphenyl (S)	%	42	46-120	12/29/09 17:41	S0
2-Fluorophenol (S)	%	47	24-120	12/29/09 17:41	
Nitrobenzene-d5 (S)	%	49	30-150	12/29/09 17:41	
Phenol-d6 (S)	%	52	35-120	12/29/09 17:41	
Terphenyl-d14 (S)	%	51	38-108	12/29/09 17:41	

LABORATORY CONTROL SAMPLE & LCSD: 383166

383167

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	931	1000	56	60	50-150	7	30	
1,2-Dichlorobenzene	ug/kg	1670	878	951	53	57	50-150	8	30	
1,3-Dichlorobenzene	ug/kg	1670	853	926	51	56	50-150	8	30	
1,4-Dichlorobenzene	ug/kg	1670	861	935	52	56	50-150	8	30	
1-Methylnaphthalene	ug/kg	1670	928	981	56	59	50-150	6	30	
2,4,5-Trichlorophenol	ug/kg	1670	908	954	54	57	50-150	5	30	
2,4,6-Trichlorophenol	ug/kg	1670	889	932	53	56	50-150	5	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 114 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		383166	383167							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dichlorophenol	ug/kg	1670	1030	1110	62	66	50-150	7	30	
2,4-Dimethylphenol	ug/kg	1670	901	953	54	57	50-150	6	30	
2,4-Dinitrophenol	ug/kg	1670	761J	806J	46	48	20-111		30	
2,4-Dinitrotoluene	ug/kg	1670	914	946	55	57	50-150	3	30	
2,6-Dinitrotoluene	ug/kg	1670	876	901	53	54	50-150	3	30	
2-Chloronaphthalene	ug/kg	1670	829	863	50	52	50-150	4	30	
2-Chlorophenol	ug/kg	1670	894	970	54	58	50-150	8	30	
2-Methylnaphthalene	ug/kg	1670	929	984	56	59	50-150	6	30	
2-Methylphenol(o-Cresol)	ug/kg	1670	956	1020	57	61	50-150	7	30	
2-Nitroaniline	ug/kg	1670	845J	885J	51	53	50-150		30	
2-Nitrophenol	ug/kg	1670	849	910	51	55	50-150	7	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	969	1020	58	61	50-150	5	30	
3,3'-Dichlorobenzidine	ug/kg	1670	928J	1010J	56	60	50-150		30	
3-Nitroaniline	ug/kg	1670	697J	749J	42	45	50-150		30	L2
4,6-Dinitro-2-methylphenol	ug/kg	1670	870	933	52	56	15-136	7	30	
4-Bromophenylphenyl ether	ug/kg	1670	1040	1080	63	65	50-150	3	30	
4-Chloro-3-methylphenol	ug/kg	1670	1020	1060	61	64	50-150	4	30	
4-Chloroaniline	ug/kg	1670	812J	872J	49	52	50-150		30	L2
4-Chlorophenylphenyl ether	ug/kg	1670	1000	1050	60	63	50-150	4	30	
4-Nitroaniline	ug/kg	1670	849	852	51	51	50-150	0	30	
4-Nitrophenol	ug/kg	1670	837J	895J	50	54	33-105		30	
Acenaphthene	ug/kg	1670	883	918	53	55	50-150	4	30	
Acenaphthylene	ug/kg	1670	868	900	52	54	50-150	4	30	
Aniline	ug/kg	1670	839	909	50	55	50-150	8	30	
Anthracene	ug/kg	1670	905	949	54	57	50-150	5	30	
Benzo(a)anthracene	ug/kg	1670	959	1010	58	60	50-150	5	30	
Benzo(a)pyrene	ug/kg	1670	853	899	51	54	50-150	5	30	
Benzo(b)fluoranthene	ug/kg	1670	926	974	56	58	50-150	5	30	
Benzo(g,h,i)perylene	ug/kg	1670	805	881	48	53	24-117	9	30	
Benzo(k)fluoranthene	ug/kg	1670	975	984	58	59	50-150	1	30	
Benzoic Acid	ug/kg	1670	714J	730J	43	44	15-104		30	
Benzyl alcohol	ug/kg	1670	951	1020	57	61	50-150	7	30	
bis(2-Chloroethoxy)methane	ug/kg	1670	940	989	56	59	50-150	5	30	
bis(2-Chloroethyl) ether	ug/kg	1670	989	1100	59	66	50-150	11	30	
bis(2-Chloroisopropyl) ether	ug/kg	1670	901	962	54	58	50-150	7	30	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	802	813	48	49	50-150	1	30	L2
Butylbenzylphthalate	ug/kg	1670	701	716	42	43	50-150	2	30	L2
Chrysene	ug/kg	1670	749	785	45	47	50-150	5	30	L2
Di-n-butylphthalate	ug/kg	1670	867	896	52	54	50-150	3	30	
Di-n-octylphthalate	ug/kg	1670	719	756	43	45	50-150	5	30	L2
Dibenz(a,h)anthracene	ug/kg	1670	852	943	51	57	17-128	10	30	
Dibenzofuran	ug/kg	1670	864	902	52	54	50-150	4	30	
Diethylphthalate	ug/kg	1670	861	887	52	53	50-150	3	30	
Dimethylphthalate	ug/kg	1670	855	889	51	53	50-150	4	30	
Fluoranthene	ug/kg	1670	998	1060	60	63	50-150	6	30	
Fluorene	ug/kg	1670	930	962	56	58	50-150	3	30	
Hexachloro-1,3-butadiene	ug/kg	1670	966	1040	58	62	50-150	7	30	
Hexachlorobenzene	ug/kg	1670	1060	1110	63	67	50-150	5	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 115 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		383166	383167							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Hexachlorocyclopentadiene	ug/kg	1670	884	975	53	59	15-114	10	30	
Hexachloroethane	ug/kg	1670	870	945	52	57	50-150	8	30	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	810	897	49	54	19-128	10	30	
Isophorone	ug/kg	1670	1010	1050	61	63	50-150	4	30	
N-Nitroso-di-n-propylamine	ug/kg	1670	970	1030	58	62	50-150	6	30	
N-Nitrosodimethylamine	ug/kg	1670	917	992	55	60	50-150	8	30	
N-Nitrosodiphenylamine	ug/kg	1670	985	1030	59	62	50-150	4	30	
Naphthalene	ug/kg	1670	859	919	52	55	50-150	7	30	
Nitrobenzene	ug/kg	1670	922	988	55	59	50-150	7	30	
Pentachlorophenol	ug/kg	1670	1220J	1260J	73	76	15-130		30	
Phenanthrene	ug/kg	1670	906	947	54	57	50-150	4	30	
Phenol	ug/kg	1670	980	1050	59	63	42-120	7	30	
Pyrene	ug/kg	1670	763	783	46	47	50-150	3	30	L2
2,4,6-Tribromophenol (S)	%				68	72	44-136			
2-Fluorobiphenyl (S)	%				49	52	46-120			
2-Fluorophenol (S)	%				55	60	24-120			
Nitrobenzene-d5 (S)	%				55	60	30-150			
Phenol-d6 (S)	%				60	65	35-120			
Terphenyl-d14 (S)	%				50	51	38-108			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8930 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9259999020, 9259999021, 9259999022, 9259999023, 9259999024

METHOD BLANK: 384946

Matrix: Solid

Associated Lab Samples: 9259999020, 9259999021, 9259999022, 9259999023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	12/30/09 14:11	
1,2-Dichlorobenzene	ug/kg	ND	330	12/30/09 14:11	
1,3-Dichlorobenzene	ug/kg	ND	330	12/30/09 14:11	
1,4-Dichlorobenzene	ug/kg	ND	330	12/30/09 14:11	
1-Methylnaphthalene	ug/kg	ND	330	12/30/09 14:11	
2,4,5-Trichlorophenol	ug/kg	ND	330	12/30/09 14:11	
2,4,6-Trichlorophenol	ug/kg	ND	330	12/30/09 14:11	
2,4-Dichlorophenol	ug/kg	ND	330	12/30/09 14:11	
2,4-Dimethylphenol	ug/kg	ND	330	12/30/09 14:11	
2,4-Dinitrophenol	ug/kg	ND	1650	12/30/09 14:11	
2,4-Dinitrotoluene	ug/kg	ND	330	12/30/09 14:11	
2,6-Dinitrotoluene	ug/kg	ND	330	12/30/09 14:11	
2-Chloronaphthalene	ug/kg	ND	330	12/30/09 14:11	
2-Chlorophenol	ug/kg	ND	330	12/30/09 14:11	
2-Methylnaphthalene	ug/kg	ND	330	12/30/09 14:11	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	12/30/09 14:11	
2-Nitroaniline	ug/kg	ND	1650	12/30/09 14:11	
2-Nitrophenol	ug/kg	ND	330	12/30/09 14:11	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	12/30/09 14:11	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	12/30/09 14:11	
3-Nitroaniline	ug/kg	ND	1650	12/30/09 14:11	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	12/30/09 14:11	
4-Bromophenylphenyl ether	ug/kg	ND	330	12/30/09 14:11	
4-Chloro-3-methylphenol	ug/kg	ND	660	12/30/09 14:11	
4-Chloroaniline	ug/kg	ND	1650	12/30/09 14:11	
4-Chlorophenylphenyl ether	ug/kg	ND	330	12/30/09 14:11	
4-Nitroaniline	ug/kg	ND	660	12/30/09 14:11	
4-Nitrophenol	ug/kg	ND	1650	12/30/09 14:11	
Acenaphthene	ug/kg	ND	330	12/30/09 14:11	
Acenaphthylene	ug/kg	ND	330	12/30/09 14:11	
Aniline	ug/kg	ND	330	12/30/09 14:11	
Anthracene	ug/kg	ND	330	12/30/09 14:11	
Benzo(a)anthracene	ug/kg	ND	330	12/30/09 14:11	
Benzo(a)pyrene	ug/kg	ND	330	12/30/09 14:11	
Benzo(b)fluoranthene	ug/kg	ND	330	12/30/09 14:11	
Benzo(g,h,i)perylene	ug/kg	ND	330	12/30/09 14:11	
Benzo(k)fluoranthene	ug/kg	ND	330	12/30/09 14:11	
Benzoic Acid	ug/kg	ND	1650	12/30/09 14:11	
Benzyl alcohol	ug/kg	ND	660	12/30/09 14:11	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	12/30/09 14:11	
bis(2-Chloroethyl) ether	ug/kg	ND	330	12/30/09 14:11	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	12/30/09 14:11	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	12/30/09 14:11	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 384946

Matrix: Solid

Associated Lab Samples: 9259999020, 9259999021, 9259999022, 9259999023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	12/30/09 14:11	
Chrysene	ug/kg	ND	330	12/30/09 14:11	
Di-n-butylphthalate	ug/kg	ND	330	12/30/09 14:11	
Di-n-octylphthalate	ug/kg	ND	330	12/30/09 14:11	
Dibenz(a,h)anthracene	ug/kg	ND	330	12/30/09 14:11	
Dibenzofuran	ug/kg	ND	330	12/30/09 14:11	
Diethylphthalate	ug/kg	ND	330	12/30/09 14:11	
Dimethylphthalate	ug/kg	ND	330	12/30/09 14:11	
Fluoranthene	ug/kg	ND	330	12/30/09 14:11	
Fluorene	ug/kg	ND	330	12/30/09 14:11	
Hexachloro-1,3-butadiene	ug/kg	ND	330	12/30/09 14:11	
Hexachlorobenzene	ug/kg	ND	330	12/30/09 14:11	
Hexachlorocyclopentadiene	ug/kg	ND	330	12/30/09 14:11	
Hexachloroethane	ug/kg	ND	330	12/30/09 14:11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	12/30/09 14:11	
Isophorone	ug/kg	ND	330	12/30/09 14:11	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	12/30/09 14:11	
N-Nitrosodimethylamine	ug/kg	ND	330	12/30/09 14:11	
N-Nitrosodiphenylamine	ug/kg	ND	330	12/30/09 14:11	
Naphthalene	ug/kg	ND	330	12/30/09 14:11	
Nitrobenzene	ug/kg	ND	330	12/30/09 14:11	
Pentachlorophenol	ug/kg	ND	1650	12/30/09 14:11	
Phenanthrene	ug/kg	ND	330	12/30/09 14:11	
Phenol	ug/kg	ND	330	12/30/09 14:11	
Pyrene	ug/kg	ND	330	12/30/09 14:11	
2,4,6-Tribromophenol (S)	%	82	44-136	12/30/09 14:11	
2-Fluorobiphenyl (S)	%	62	46-120	12/30/09 14:11	
2-Fluorophenol (S)	%	56	24-120	12/30/09 14:11	
Nitrobenzene-d5 (S)	%	63	30-150	12/30/09 14:11	
Phenol-d6 (S)	%	65	35-120	12/30/09 14:11	
Terphenyl-d14 (S)	%	77	38-108	12/30/09 14:11	

LABORATORY CONTROL SAMPLE & LCSD: 384947

384948

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	833	565	612	68	73	50-150	8	30	
1,2-Dichlorobenzene	ug/kg	833	489	542	59	65	50-150	10	30	
1,3-Dichlorobenzene	ug/kg	833	465	514	56	62	50-150	10	30	
1,4-Dichlorobenzene	ug/kg	833	471	527	56	63	50-150	11	30	
1-Methylnaphthalene	ug/kg	833	634	673	76	81	50-150	6	30	
2,4,5-Trichlorophenol	ug/kg	833	639	689	77	83	50-150	8	30	
2,4,6-Trichlorophenol	ug/kg	833	606	632	73	76	50-150	4	30	
2,4-Dichlorophenol	ug/kg	833	659	696	79	84	50-150	5	30	
2,4-Dimethylphenol	ug/kg	833	631	665	76	80	50-150	5	30	
2,4-Dinitrophenol	ug/kg	4170	2160	2360	52	57	20-111	9	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 118 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		384947	384948							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/kg	833	671	711	81	85	50-150	6	30	
2,6-Dinitrotoluene	ug/kg	833	642	664	77	80	50-150	4	30	
2-Chloronaphthalene	ug/kg	833	599	627	72	75	50-150	5	30	
2-Chlorophenol	ug/kg	833	518	560	62	67	50-150	8	30	
2-Methylnaphthalene	ug/kg	833	634	687	76	82	50-150	8	30	
2-Methylphenol(o-Cresol)	ug/kg	833	627	664	75	80	50-150	6	30	
2-Nitroaniline	ug/kg	4170	3310	3460	79	83	50-150	4	30	
2-Nitrophenol	ug/kg	833	528	564	63	68	50-150	7	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	833	658	694	79	83	50-150	5	30	
3,3'-Dichlorobenzidine	ug/kg	833	667J	753J	80	90	50-150		30	
3-Nitroaniline	ug/kg	4170	2720	2950	65	71	50-150	8	30	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1170	1240	70	75	15-136	6	30	
4-Bromophenylphenyl ether	ug/kg	833	761	790	91	95	50-150	4	30	
4-Chloro-3-methylphenol	ug/kg	1670	1430	1480	86	89	50-150	4	30	
4-Chloroaniline	ug/kg	4170	2750	3190	66	77	50-150	15	30	
4-Chlorophenylphenyl ether	ug/kg	833	739	758	89	91	50-150	3	30	
4-Nitroaniline	ug/kg	4170	3220	3560	77	85	50-150	10	30	
4-Nitrophenol	ug/kg	4170	2870	3220	69	77	33-105	12	30	
Acenaphthene	ug/kg	833	666	686	80	82	50-150	3	30	
Acenaphthylene	ug/kg	833	652	675	78	81	50-150	3	30	
Aniline	ug/kg	833	489	543	59	65	50-150	11	30	
Anthracene	ug/kg	833	710	745	85	89	50-150	5	30	
Benzo(a)anthracene	ug/kg	833	703	761	84	91	50-150	8	30	
Benzo(a)pyrene	ug/kg	833	631	697	76	84	50-150	10	30	
Benzo(b)fluoranthene	ug/kg	833	691	779	83	93	50-150	12	30	
Benzo(g,h,i)perylene	ug/kg	833	599	659	72	79	24-117	9	30	
Benzo(k)fluoranthene	ug/kg	833	702	782	84	94	50-150	11	30	
Benzoic Acid	ug/kg	4170	1560J	1820	38	44	15-104		30	
Benzyl alcohol	ug/kg	1670	1180	1260	71	75	50-150	6	30	
bis(2-Chloroethoxy)methane	ug/kg	833	635	668	76	80	50-150	5	30	
bis(2-Chloroethyl) ether	ug/kg	833	571	614	69	74	50-150	7	30	
bis(2-Chloroisopropyl) ether	ug/kg	833	583	626	70	75	50-150	7	30	
bis(2-Ethylhexyl)phthalate	ug/kg	833	641	699	77	84	50-150	9	30	
Butylbenzylphthalate	ug/kg	833	539	591	65	71	50-150	9	30	
Chrysene	ug/kg	833	587	626	70	75	50-150	6	30	
Di-n-butylphthalate	ug/kg	833	682	742	82	89	50-150	8	30	
Di-n-octylphthalate	ug/kg	833	549	595	66	71	50-150	8	30	
Dibenz(a,h)anthracene	ug/kg	833	618	691	74	83	17-128	11	30	
Dibenzofuran	ug/kg	833	645	666	77	80	50-150	3	30	
Diethylphthalate	ug/kg	833	668	693	80	83	50-150	4	30	
Dimethylphthalate	ug/kg	833	641	666	77	80	50-150	4	30	
Fluoranthene	ug/kg	833	763	828	92	99	50-150	8	30	
Fluorene	ug/kg	833	713	730	86	88	50-150	2	30	
Hexachloro-1,3-butadiene	ug/kg	833	560	614	67	74	50-150	9	30	
Hexachlorobenzene	ug/kg	833	774	798	93	96	50-150	3	30	
Hexachlorocyclopentadiene	ug/kg	833	545	588	65	71	15-114	8	30	
Hexachloroethane	ug/kg	833	475	542	57	65	50-150	13	30	
Indeno(1,2,3-cd)pyrene	ug/kg	833	604	660	72	79	19-128	9	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 119 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		384947	384948							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/kg	833	694	720	83	86	50-150	4	30	
N-Nitroso-di-n-propylamine	ug/kg	833	677	699	81	84	50-150	3	30	
N-Nitrosodimethylamine	ug/kg	833	514	568	62	68	50-150	10	30	
N-Nitrosodiphenylamine	ug/kg	833	701	750	84	90	50-150	7	30	
Naphthalene	ug/kg	833	565	606	68	73	50-150	7	30	
Nitrobenzene	ug/kg	833	609	653	73	78	50-150	7	30	
Pentachlorophenol	ug/kg	4170	4180	4600	100	110	15-130	10	30	
Phenanthrene	ug/kg	833	708	743	85	89	50-150	5	30	
Phenol	ug/kg	833	605	647	73	78	42-120	7	30	
Pyrene	ug/kg	833	600	637	72	76	50-150	6	30	
2,4,6-Tribromophenol (S)	%				98	104	44-136			
2-Fluorobiphenyl (S)	%				69	72	46-120			
2-Fluorophenol (S)	%				60	66	24-120			
Nitrobenzene-d5 (S)	%				67	73	30-150			
Phenol-d6 (S)	%				70	75	35-120			
Terphenyl-d14 (S)	%				73	79	38-108			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8945 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9259999005, 9259999007, 9259999010, 9259999011, 9259999013, 9259999014, 9259999016

METHOD BLANK: 385664 Matrix: Solid
Associated Lab Samples: 9259999005, 9259999007, 9259999010, 9259999011, 9259999013, 9259999014, 9259999016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	01/07/10 12:39	
1,2-Dichlorobenzene	ug/kg	ND	330	01/07/10 12:39	
1,3-Dichlorobenzene	ug/kg	ND	330	01/07/10 12:39	
1,4-Dichlorobenzene	ug/kg	ND	330	01/07/10 12:39	
1-Methylnaphthalene	ug/kg	ND	330	01/07/10 12:39	
2,4,5-Trichlorophenol	ug/kg	ND	330	01/07/10 12:39	
2,4,6-Trichlorophenol	ug/kg	ND	330	01/07/10 12:39	
2,4-Dichlorophenol	ug/kg	ND	330	01/07/10 12:39	
2,4-Dimethylphenol	ug/kg	ND	330	01/07/10 12:39	
2,4-Dinitrophenol	ug/kg	ND	1650	01/07/10 12:39	
2,4-Dinitrotoluene	ug/kg	ND	330	01/07/10 12:39	
2,6-Dinitrotoluene	ug/kg	ND	330	01/07/10 12:39	
2-Chloronaphthalene	ug/kg	ND	330	01/07/10 12:39	
2-Chlorophenol	ug/kg	ND	330	01/07/10 12:39	
2-Methylnaphthalene	ug/kg	ND	330	01/07/10 12:39	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	01/07/10 12:39	
2-Nitroaniline	ug/kg	ND	1650	01/07/10 12:39	
2-Nitrophenol	ug/kg	ND	330	01/07/10 12:39	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	01/07/10 12:39	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	01/07/10 12:39	
3-Nitroaniline	ug/kg	ND	1650	01/07/10 12:39	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	01/07/10 12:39	
4-Bromophenylphenyl ether	ug/kg	ND	330	01/07/10 12:39	
4-Chloro-3-methylphenol	ug/kg	ND	660	01/07/10 12:39	
4-Chloroaniline	ug/kg	ND	1650	01/07/10 12:39	
4-Chlorophenylphenyl ether	ug/kg	ND	330	01/07/10 12:39	
4-Nitroaniline	ug/kg	ND	660	01/07/10 12:39	
4-Nitrophenol	ug/kg	ND	1650	01/07/10 12:39	
Acenaphthene	ug/kg	ND	330	01/07/10 12:39	
Acenaphthylene	ug/kg	ND	330	01/07/10 12:39	
Aniline	ug/kg	ND	330	01/07/10 12:39	
Anthracene	ug/kg	ND	330	01/07/10 12:39	
Benzo(a)anthracene	ug/kg	ND	330	01/07/10 12:39	
Benzo(a)pyrene	ug/kg	ND	330	01/07/10 12:39	
Benzo(b)fluoranthene	ug/kg	ND	330	01/07/10 12:39	
Benzo(g,h,i)perylene	ug/kg	ND	330	01/07/10 12:39	
Benzo(k)fluoranthene	ug/kg	ND	330	01/07/10 12:39	
Benzoic Acid	ug/kg	ND	1650	01/07/10 12:39	
Benzyl alcohol	ug/kg	ND	660	01/07/10 12:39	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	01/07/10 12:39	
bis(2-Chloroethyl) ether	ug/kg	ND	330	01/07/10 12:39	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	01/07/10 12:39	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	01/07/10 12:39	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 121 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 385664

Matrix: Solid

Associated Lab Samples: 9259999005, 9259999007, 9259999010, 9259999011, 9259999013, 9259999014, 9259999016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	01/07/10 12:39	
Chrysene	ug/kg	ND	330	01/07/10 12:39	
Di-n-butylphthalate	ug/kg	ND	330	01/07/10 12:39	
Di-n-octylphthalate	ug/kg	ND	330	01/07/10 12:39	
Dibenz(a,h)anthracene	ug/kg	ND	330	01/07/10 12:39	
Dibenzofuran	ug/kg	ND	330	01/07/10 12:39	
Diethylphthalate	ug/kg	ND	330	01/07/10 12:39	
Dimethylphthalate	ug/kg	ND	330	01/07/10 12:39	
Fluoranthene	ug/kg	ND	330	01/07/10 12:39	
Fluorene	ug/kg	ND	330	01/07/10 12:39	
Hexachloro-1,3-butadiene	ug/kg	ND	330	01/07/10 12:39	
Hexachlorobenzene	ug/kg	ND	330	01/07/10 12:39	
Hexachlorocyclopentadiene	ug/kg	ND	330	01/07/10 12:39	
Hexachloroethane	ug/kg	ND	330	01/07/10 12:39	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	01/07/10 12:39	
Isophorone	ug/kg	ND	330	01/07/10 12:39	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	01/07/10 12:39	
N-Nitrosodimethylamine	ug/kg	ND	330	01/07/10 12:39	
N-Nitrosodiphenylamine	ug/kg	ND	330	01/07/10 12:39	
Naphthalene	ug/kg	ND	330	01/07/10 12:39	
Nitrobenzene	ug/kg	ND	330	01/07/10 12:39	
Pentachlorophenol	ug/kg	ND	1650	01/07/10 12:39	
Phenanthrene	ug/kg	ND	330	01/07/10 12:39	
Phenol	ug/kg	ND	330	01/07/10 12:39	
Pyrene	ug/kg	ND	330	01/07/10 12:39	
2,4,6-Tribromophenol (S)	%	121	44-136	01/07/10 12:39	
2-Fluorobiphenyl (S)	%	80	46-120	01/07/10 12:39	
2-Fluorophenol (S)	%	79	24-120	01/07/10 12:39	
Nitrobenzene-d5 (S)	%	84	30-150	01/07/10 12:39	
Phenol-d6 (S)	%	87	35-120	01/07/10 12:39	
Terphenyl-d14 (S)	%	98	38-108	01/07/10 12:39	

LABORATORY CONTROL SAMPLE & LCSD: 385665

385666

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1300	1020	78	61	50-150	23	30	
1,2-Dichlorobenzene	ug/kg	1670	1170	898	70	54	50-150	27	30	
1,3-Dichlorobenzene	ug/kg	1670	1150	871	69	52	50-150	27	30	
1,4-Dichlorobenzene	ug/kg	1670	1150	880	69	53	50-150	27	30	
1-Methylnaphthalene	ug/kg	1670	1250	1120	75	67	50-150	11	30	
2,4,5-Trichlorophenol	ug/kg	1670	1420	1380	85	83	50-150	3	30	
2,4,6-Trichlorophenol	ug/kg	1670	1370	1330	82	80	50-150	3	30	
2,4-Dichlorophenol	ug/kg	1670	1450	1300	87	78	50-150	11	30	
2,4-Dimethylphenol	ug/kg	1670	1250	1080	75	65	50-150	14	30	
2,4-Dinitrophenol	ug/kg	8330	7130	6490	86	78	20-111	9	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 122 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		385665	385666							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1400	1400	84	84	50-150	0	30	
2,6-Dinitrotoluene	ug/kg	1670	1320	1330	79	80	50-150	0	30	
2-Chloronaphthalene	ug/kg	1670	1220	1140	73	68	50-150	7	30	
2-Chlorophenol	ug/kg	1670	1170	909	70	55	50-150	25	30	
2-Methylnaphthalene	ug/kg	1670	1240	1100	74	66	50-150	12	30	
2-Methylphenol(o-Cresol)	ug/kg	1670	1220	1040	73	62	50-150	17	30	
2-Nitroaniline	ug/kg	8330	6470	6460	78	78	50-150	0	30	
2-Nitrophenol	ug/kg	1670	1180	984	71	59	50-150	18	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1230	1120	74	67	50-150	10	30	
3,3'-Dichlorobenzidine	ug/kg	1670	1480J	1410J	89	85	50-150		30	
3-Nitroaniline	ug/kg	8330	5090	5030	61	60	50-150	1	30	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3180	3060	95	92	15-136	4	30	
4-Bromophenylphenyl ether	ug/kg	1670	1640	1630	98	98	50-150	0	30	
4-Chloro-3-methylphenol	ug/kg	3330	2840	2780	85	84	50-150	2	30	
4-Chloroaniline	ug/kg	8330	5900	5620	71	67	50-150	5	30	
4-Chlorophenylphenyl ether	ug/kg	1670	1520	1510	91	90	50-150	1	30	
4-Nitroaniline	ug/kg	8330	6680	6480	80	78	50-150	3	30	
4-Nitrophenol	ug/kg	8330	6650	6620	80	79	33-105	0	30	
Acenaphthene	ug/kg	1670	1300	1270	78	76	50-150	2	30	
Acenaphthylene	ug/kg	1670	1270	1250	76	75	50-150	2	30	
Aniline	ug/kg	1670	1140	925	68	56	50-150	20	30	
Anthracene	ug/kg	1670	1410	1410	85	85	50-150	0	30	
Benzo(a)anthracene	ug/kg	1670	1460	1450	88	87	50-150	1	30	
Benzo(a)pyrene	ug/kg	1670	1310	1290	78	77	50-150	1	30	
Benzo(b)fluoranthene	ug/kg	1670	1470	1430	88	86	50-150	3	30	
Benzo(g,h,i)perylene	ug/kg	1670	1220	1220	73	73	24-117	0	30	
Benzo(k)fluoranthene	ug/kg	1670	1660	1600	100	96	50-150	4	30	
Benzoic Acid	ug/kg	8330	4890	3830	59	46	15-104	24	30	
Benzyl alcohol	ug/kg	3330	2470	2150	74	65	50-150	14	30	
bis(2-Chloroethoxy)methane	ug/kg	1670	1250	1080	75	65	50-150	14	30	
bis(2-Chloroethyl) ether	ug/kg	1670	1280	972	77	58	50-150	28	30	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1080	861	65	52	50-150	23	30	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1180	1170	71	70	50-150	1	30	
Butylbenzylphthalate	ug/kg	1670	1050	1050	63	63	50-150	0	30	
Chrysene	ug/kg	1670	1260	1240	76	74	50-150	2	30	
Di-n-butylphthalate	ug/kg	1670	1330	1320	80	79	50-150	1	30	
Di-n-octylphthalate	ug/kg	1670	1090	1080	65	65	50-150	1	30	
Dibenz(a,h)anthracene	ug/kg	1670	1300	1300	78	78	17-128	0	30	
Dibenzofuran	ug/kg	1670	1310	1280	78	77	50-150	2	30	
Diethylphthalate	ug/kg	1670	1290	1300	78	78	50-150	1	30	
Dimethylphthalate	ug/kg	1670	1280	1290	77	77	50-150	1	30	
Fluoranthene	ug/kg	1670	1570	1550	94	93	50-150	1	30	
Fluorene	ug/kg	1670	1380	1380	83	83	50-150	0	30	
Hexachloro-1,3-butadiene	ug/kg	1670	1370	1020	82	61	50-150	29	30	
Hexachlorobenzene	ug/kg	1670	1690	1690	101	101	50-150	0	30	
Hexachlorocyclopentadiene	ug/kg	1670	1530	1200	92	72	15-114	24	30	
Hexachloroethane	ug/kg	1670	1160	882	70	53	50-150	27	30	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1260	1260	76	75	19-128	0	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 123 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		385665	385666							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/kg	1670	1340	1270	80	76	50-150	5	30	
N-Nitroso-di-n-propylamine	ug/kg	1670	1210	1110	72	67	50-150	8	30	
N-Nitrosodimethylamine	ug/kg	1670	1160	882	70	53	50-150	27	30	
N-Nitrosodiphenylamine	ug/kg	1670	1530	1530	92	92	50-150	0	30	
Naphthalene	ug/kg	1670	1160	945	70	57	50-150	20	30	
Nitrobenzene	ug/kg	1670	1240	1030	74	62	50-150	19	30	
Pentachlorophenol	ug/kg	8330	9880	9680	119	116	15-130	2	30	
Phenanthrene	ug/kg	1670	1400	1390	84	83	50-150	1	30	
Phenol	ug/kg	1670	1250	1040	75	63	42-120	18	30	
Pyrene	ug/kg	1670	1160	1150	69	69	50-150	1	30	
2,4,6-Tribromophenol (S)	%				111	109	44-136			
2-Fluorobiphenyl (S)	%				74	67	46-120			
2-Fluorophenol (S)	%				72	57	24-120			
Nitrobenzene-d5 (S)	%				75	61	30-150			
Phenol-d6 (S)	%				78	64	35-120			
Terphenyl-d14 (S)	%				74	74	38-108			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: OEXT/8996	Analysis Method: EPA 8270
QC Batch Method: EPA 3546	Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9259999024	

METHOD BLANK: 387711	Matrix: Solid
Associated Lab Samples: 9259999024	

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	01/07/10 18:35	
1,2-Dichlorobenzene	ug/kg	ND	330	01/07/10 18:35	
1,3-Dichlorobenzene	ug/kg	ND	330	01/07/10 18:35	
1,4-Dichlorobenzene	ug/kg	ND	330	01/07/10 18:35	
1-Methylnaphthalene	ug/kg	ND	330	01/07/10 18:35	
2,4,5-Trichlorophenol	ug/kg	ND	330	01/07/10 18:35	
2,4,6-Trichlorophenol	ug/kg	ND	330	01/07/10 18:35	
2,4-Dichlorophenol	ug/kg	ND	330	01/07/10 18:35	
2,4-Dimethylphenol	ug/kg	ND	330	01/07/10 18:35	
2,4-Dinitrophenol	ug/kg	ND	1650	01/07/10 18:35	
2,4-Dinitrotoluene	ug/kg	ND	330	01/07/10 18:35	
2,6-Dinitrotoluene	ug/kg	ND	330	01/07/10 18:35	
2-Chloronaphthalene	ug/kg	ND	330	01/07/10 18:35	
2-Chlorophenol	ug/kg	ND	330	01/07/10 18:35	
2-Methylnaphthalene	ug/kg	ND	330	01/07/10 18:35	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	01/07/10 18:35	
2-Nitroaniline	ug/kg	ND	1650	01/07/10 18:35	
2-Nitrophenol	ug/kg	ND	330	01/07/10 18:35	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	01/07/10 18:35	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	01/07/10 18:35	
3-Nitroaniline	ug/kg	ND	1650	01/07/10 18:35	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	01/07/10 18:35	
4-Bromophenylphenyl ether	ug/kg	ND	330	01/07/10 18:35	
4-Chloro-3-methylphenol	ug/kg	ND	660	01/07/10 18:35	
4-Chloroaniline	ug/kg	ND	1650	01/07/10 18:35	
4-Chlorophenylphenyl ether	ug/kg	ND	330	01/07/10 18:35	
4-Nitroaniline	ug/kg	ND	660	01/07/10 18:35	
4-Nitrophenol	ug/kg	ND	1650	01/07/10 18:35	
Acenaphthene	ug/kg	ND	330	01/07/10 18:35	
Acenaphthylene	ug/kg	ND	330	01/07/10 18:35	
Aniline	ug/kg	ND	330	01/07/10 18:35	
Anthracene	ug/kg	ND	330	01/07/10 18:35	
Benzo(a)anthracene	ug/kg	ND	330	01/07/10 18:35	
Benzo(a)pyrene	ug/kg	ND	330	01/07/10 18:35	
Benzo(b)fluoranthene	ug/kg	ND	330	01/07/10 18:35	
Benzo(g,h,i)perylene	ug/kg	ND	330	01/07/10 18:35	
Benzo(k)fluoranthene	ug/kg	ND	330	01/07/10 18:35	
Benzoic Acid	ug/kg	ND	1650	01/07/10 18:35	
Benzyl alcohol	ug/kg	ND	660	01/07/10 18:35	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	01/07/10 18:35	
bis(2-Chloroethyl) ether	ug/kg	ND	330	01/07/10 18:35	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	01/07/10 18:35	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	01/07/10 18:35	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 125 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

METHOD BLANK: 387711

Matrix: Solid

Associated Lab Samples: 9259999024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	01/07/10 18:35	
Chrysene	ug/kg	ND	330	01/07/10 18:35	
Di-n-butylphthalate	ug/kg	ND	330	01/07/10 18:35	
Di-n-octylphthalate	ug/kg	ND	330	01/07/10 18:35	
Dibenz(a,h)anthracene	ug/kg	ND	330	01/07/10 18:35	
Dibenzofuran	ug/kg	ND	330	01/07/10 18:35	
Diethylphthalate	ug/kg	ND	330	01/07/10 18:35	
Dimethylphthalate	ug/kg	ND	330	01/07/10 18:35	
Fluoranthene	ug/kg	ND	330	01/07/10 18:35	
Fluorene	ug/kg	ND	330	01/07/10 18:35	
Hexachloro-1,3-butadiene	ug/kg	ND	330	01/07/10 18:35	
Hexachlorobenzene	ug/kg	ND	330	01/07/10 18:35	
Hexachlorocyclopentadiene	ug/kg	ND	330	01/07/10 18:35	
Hexachloroethane	ug/kg	ND	330	01/07/10 18:35	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	01/07/10 18:35	
Isophorone	ug/kg	ND	330	01/07/10 18:35	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	01/07/10 18:35	
N-Nitrosodimethylamine	ug/kg	ND	330	01/07/10 18:35	
N-Nitrosodiphenylamine	ug/kg	ND	330	01/07/10 18:35	
Naphthalene	ug/kg	ND	330	01/07/10 18:35	
Nitrobenzene	ug/kg	ND	330	01/07/10 18:35	
Pentachlorophenol	ug/kg	ND	1650	01/07/10 18:35	
Phenanthrene	ug/kg	ND	330	01/07/10 18:35	
Phenol	ug/kg	ND	330	01/07/10 18:35	
Pyrene	ug/kg	ND	330	01/07/10 18:35	
2,4,6-Tribromophenol (S)	%	83	44-136	01/07/10 18:35	
2-Fluorobiphenyl (S)	%	64	46-120	01/07/10 18:35	
2-Fluorophenol (S)	%	66	24-120	01/07/10 18:35	
Nitrobenzene-d5 (S)	%	71	30-150	01/07/10 18:35	
Phenol-d6 (S)	%	72	35-120	01/07/10 18:35	
Terphenyl-d14 (S)	%	76	38-108	01/07/10 18:35	

LABORATORY CONTROL SAMPLE & LCSD: 387712

387713

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1110	1330	67	80	50-150	17	30	
1,2-Dichlorobenzene	ug/kg	1670	999	1200	60	72	50-150	18	30	
1,3-Dichlorobenzene	ug/kg	1670	975	1170	58	70	50-150	18	30	
1,4-Dichlorobenzene	ug/kg	1670	990	1180	59	71	50-150	18	30	
1-Methylnaphthalene	ug/kg	1670	1220	1300	73	78	50-150	6	30	
2,4,5-Trichlorophenol	ug/kg	1670	1380	1500	83	90	50-150	8	30	
2,4,6-Trichlorophenol	ug/kg	1670	1330	1420	80	85	50-150	7	30	
2,4-Dichlorophenol	ug/kg	1670	1370	1500	82	90	50-150	9	30	
2,4-Dimethylphenol	ug/kg	1670	1280	1360	77	82	50-150	6	30	
2,4-Dinitrophenol	ug/kg	8330	6530	6600	78	79	20-111	1	30	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 126 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD: 387712			387713							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1370	1510	82	91	50-150	10	30	
2,6-Dinitrotoluene	ug/kg	1670	1300	1440	78	86	50-150	10	30	
2-Chloronaphthalene	ug/kg	1670	1220	1260	73	75	50-150	3	30	
2-Chlorophenol	ug/kg	1670	991	1200	59	72	50-150	19	30	
2-Methylnaphthalene	ug/kg	1670	1210	1290	73	78	50-150	7	30	
2-Methylphenol(o-Cresol)	ug/kg	1670	1170	1290	70	78	50-150	10	30	
2-Nitroaniline	ug/kg	8330	6450	6990	77	84	50-150	8	30	
2-Nitrophenol	ug/kg	1670	1090	1230	65	74	50-150	12	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1240	1300	74	78	50-150	5	30	
3,3'-Dichlorobenzidine	ug/kg	1670	1410J	914J	85	55	50-150		30	
3-Nitroaniline	ug/kg	8330	4850	5500	58	66	50-150	12	30	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3090	3490	93	105	15-136	12	30	
4-Bromophenylphenyl ether	ug/kg	1670	1630	1830	98	110	50-150	12	30	
4-Chloro-3-methylphenol	ug/kg	3330	2830	3040	85	91	50-150	7	30	
4-Chloroaniline	ug/kg	8330	5730	6210	69	75	50-150	8	30	
4-Chlorophenylphenyl ether	ug/kg	1670	1540	1620	92	97	50-150	6	30	
4-Nitroaniline	ug/kg	8330	6560	7300	79	88	50-150	11	30	
4-Nitrophenol	ug/kg	8330	6430	7130	77	86	33-105	10	30	
Acenaphthene	ug/kg	1670	1310	1370	79	82	50-150	4	30	
Acenaphthylene	ug/kg	1670	1290	1340	77	81	50-150	4	30	
Aniline	ug/kg	1670	1000	1200	60	72	50-150	18	30	
Anthracene	ug/kg	1670	1420	1590	85	95	50-150	11	30	
Benzo(a)anthracene	ug/kg	1670	1450	1630	87	98	50-150	12	30	
Benzo(a)pyrene	ug/kg	1670	1280	1460	77	88	50-150	14	30	
Benzo(b)fluoranthene	ug/kg	1670	1380	1630	83	98	50-150	16	30	
Benzo(g,h,i)perylene	ug/kg	1670	1220	1320	73	79	24-117	7	30	
Benzo(k)fluoranthene	ug/kg	1670	1580	1820	95	109	50-150	14	30	
Benzoic Acid	ug/kg	8330	4220	4300	51	52	15-104	2	30	
Benzyl alcohol	ug/kg	3330	2380	2560	71	77	50-150	7	30	
bis(2-Chloroethoxy)methane	ug/kg	1670	1210	1300	72	78	50-150	7	30	
bis(2-Chloroethyl) ether	ug/kg	1670	1100	1330	66	80	50-150	19	30	
bis(2-Chloroisopropyl) ether	ug/kg	1670	968	1140	58	68	50-150	16	30	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1190	1290	72	77	50-150	7	30	
Butylbenzylphthalate	ug/kg	1670	1050	1180	63	71	50-150	12	30	
Chrysene	ug/kg	1670	1240	1400	74	84	50-150	12	30	
Di-n-butylphthalate	ug/kg	1670	1330	1510	80	91	50-150	13	30	
Di-n-octylphthalate	ug/kg	1670	1080	1210	65	73	50-150	11	30	
Dibenz(a,h)anthracene	ug/kg	1670	1310	1430	78	86	17-128	9	30	
Dibenzofuran	ug/kg	1670	1310	1380	79	83	50-150	5	30	
Diethylphthalate	ug/kg	1670	1290	1400	77	84	50-150	9	30	
Dimethylphthalate	ug/kg	1670	1290	1400	77	84	50-150	8	30	
Fluoranthene	ug/kg	1670	1560	1780	94	107	50-150	13	30	
Fluorene	ug/kg	1670	1390	1480	83	89	50-150	6	30	
Hexachloro-1,3-butadiene	ug/kg	1670	1120	1400	67	84	50-150	22	30	
Hexachlorobenzene	ug/kg	1670	1680	1910	101	115	50-150	13	30	
Hexachlorocyclopentadiene	ug/kg	1670	1360	1480	82	89	15-114	8	30	
Hexachloroethane	ug/kg	1670	987	1190	59	72	50-150	19	30	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1260	1370	76	82	19-128	8	30	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE & LCSD:		387712	387713							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/kg	1670	1350	1420	81	85	50-150	5	30	
N-Nitroso-di-n-propylamine	ug/kg	1670	1240	1290	74	78	50-150	4	30	
N-Nitrosodimethylamine	ug/kg	1670	1000	1200	60	72	50-150	18	30	
N-Nitrosodiphenylamine	ug/kg	1670	1530	1720	92	103	50-150	11	30	
Naphthalene	ug/kg	1670	1040	1210	62	72	50-150	15	30	
Nitrobenzene	ug/kg	1670	1130	1310	68	78	50-150	15	30	
Pentachlorophenol	ug/kg	8330	9820	11100	118	133	15-130	12	30	L1
Phenanthrene	ug/kg	1670	1390	1560	83	94	50-150	12	30	
Phenol	ug/kg	1670	1140	1310	68	79	42-120	14	30	
Pyrene	ug/kg	1670	1150	1290	69	77	50-150	12	30	
2,4,6-Tribromophenol (S)	%				106	120	44-136			
2-Fluorobiphenyl (S)	%				72	73	46-120			
2-Fluorophenol (S)	%				61	71	24-120			
Nitrobenzene-d5 (S)	%				67	76	30-150			
Phenol-d6 (S)	%				69	78	35-120			
Terphenyl-d14 (S)	%				74	82	38-108			

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch:	MSV/9437	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	9259999002		

METHOD BLANK:	382646	Matrix:	Solid
Associated Lab Samples:	9259999002		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,1-Dichloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,1-Dichloroethene	ug/kg	ND	5.0	12/24/09 11:11	
1,1-Dichloropropene	ug/kg	ND	5.0	12/24/09 11:11	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/24/09 11:11	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/24/09 11:11	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/24/09 11:11	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,2-Dichloroethane	ug/kg	ND	5.0	12/24/09 11:11	
1,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 11:11	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
1,3-Dichloropropane	ug/kg	ND	5.0	12/24/09 11:11	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
2,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 11:11	
2-Butanone (MEK)	ug/kg	ND	100	12/24/09 11:11	
2-Chlorotoluene	ug/kg	ND	5.0	12/24/09 11:11	
2-Hexanone	ug/kg	ND	50.0	12/24/09 11:11	
4-Chlorotoluene	ug/kg	ND	5.0	12/24/09 11:11	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/24/09 11:11	
Acetone	ug/kg	ND	100	12/24/09 11:11	
Benzene	ug/kg	ND	5.0	12/24/09 11:11	
Bromobenzene	ug/kg	ND	5.0	12/24/09 11:11	
Bromochloromethane	ug/kg	ND	5.0	12/24/09 11:11	
Bromodichloromethane	ug/kg	ND	5.0	12/24/09 11:11	
Bromoform	ug/kg	ND	5.0	12/24/09 11:11	
Bromomethane	ug/kg	ND	10.0	12/24/09 11:11	
Carbon tetrachloride	ug/kg	ND	5.0	12/24/09 11:11	
Chlorobenzene	ug/kg	ND	5.0	12/24/09 11:11	
Chloroethane	ug/kg	ND	10.0	12/24/09 11:11	
Chloroform	ug/kg	ND	5.0	12/24/09 11:11	
Chloromethane	ug/kg	ND	10.0	12/24/09 11:11	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 11:11	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 11:11	
Dibromochloromethane	ug/kg	ND	5.0	12/24/09 11:11	
Dibromomethane	ug/kg	ND	5.0	12/24/09 11:11	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/24/09 11:11	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 129 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 382646

Matrix: Solid

Associated Lab Samples: 9259999002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	12/24/09 11:11	
Ethylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/24/09 11:11	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/24/09 11:11	
m&p-Xylene	ug/kg	ND	10.0	12/24/09 11:11	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/24/09 11:11	
Methylene Chloride	ug/kg	ND	20.0	12/24/09 11:11	
n-Butylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
n-Propylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
Naphthalene	ug/kg	ND	5.0	12/24/09 11:11	
o-Xylene	ug/kg	ND	5.0	12/24/09 11:11	
p-Isopropyltoluene	ug/kg	ND	5.0	12/24/09 11:11	
sec-Butylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
Styrene	ug/kg	ND	5.0	12/24/09 11:11	
tert-Butylbenzene	ug/kg	ND	5.0	12/24/09 11:11	
Tetrachloroethene	ug/kg	ND	5.0	12/24/09 11:11	
Toluene	ug/kg	ND	5.0	12/24/09 11:11	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 11:11	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 11:11	
Trichloroethene	ug/kg	ND	5.0	12/24/09 11:11	
Trichlorofluoromethane	ug/kg	ND	5.0	12/24/09 11:11	
Vinyl acetate	ug/kg	ND	50.0	12/24/09 11:11	
Vinyl chloride	ug/kg	ND	10.0	12/24/09 11:11	
Xylene (Total)	ug/kg	ND	10.0	12/24/09 11:11	
1,2-Dichloroethane-d4 (S)	%	104	69-121	12/24/09 11:11	
4-Bromofluorobenzene (S)	%	97	74-115	12/24/09 11:11	
Dibromofluoromethane (S)	%	100	79-116	12/24/09 11:11	
Toluene-d8 (S)	%	101	88-110	12/24/09 11:11	

LABORATORY CONTROL SAMPLE: 382647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	56.7	113	75-137	
1,1,1-Trichloroethane	ug/kg	50	59.0	118	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.7	105	74-133	
1,1,2-Trichloroethane	ug/kg	50	57.3	115	79-129	
1,1-Dichloroethane	ug/kg	50	60.6	121	72-139	
1,1-Dichloroethene	ug/kg	50	62.3	125	69-154	
1,1-Dichloropropene	ug/kg	50	54.3	109	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	55.1	110	71-150	
1,2,3-Trichloropropane	ug/kg	50	54.6	109	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	53.4	107	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	56.2	112	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	55.8	112	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	54.9	110	77-136	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 130 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 382647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	55.8	112	75-141	
1,2-Dichloroethane	ug/kg	50	56.2	112	74-134	
1,2-Dichloropropane	ug/kg	50	57.9	116	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	55.6	111	65-128	
1,3-Dichlorobenzene	ug/kg	50	55.0	110	76-133	
1,3-Dichloropropane	ug/kg	50	55.7	111	79-132	
1,4-Dichlorobenzene	ug/kg	50	53.5	107	75-137	
2,2-Dichloropropane	ug/kg	50	60.6	121	73-137	
2-Butanone (MEK)	ug/kg	100	113	113	61-138	
2-Chlorotoluene	ug/kg	50	55.2	110	73-138	
2-Hexanone	ug/kg	100	114	114	58-159	
4-Chlorotoluene	ug/kg	50	56.5	113	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	113	113	74-139	
Acetone	ug/kg	100	120	120	58-150	
Benzene	ug/kg	50	56.7	113	71-140	
Bromobenzene	ug/kg	50	57.0	114	72-144	
Bromochloromethane	ug/kg	50	56.3	113	78-133	
Bromodichloromethane	ug/kg	50	56.1	112	78-133	
Bromoform	ug/kg	50	57.0	114	74-132	
Bromomethane	ug/kg	50	51.6	103	63-184	
Carbon tetrachloride	ug/kg	50	70.4	141	73-143	
Chlorobenzene	ug/kg	50	57.6	115	77-137	
Chloroethane	ug/kg	50	58.4	117	68-146	
Chloroform	ug/kg	50	56.2	112	75-137	
Chloromethane	ug/kg	50	55.3	111	54-143	
cis-1,2-Dichloroethene	ug/kg	50	58.9	118	71-143	
cis-1,3-Dichloropropene	ug/kg	50	57.5	115	76-133	
Dibromochloromethane	ug/kg	50	55.1	110	77-131	
Dibromomethane	ug/kg	50	59.9	120	63-184	
Dichlorodifluoromethane	ug/kg	50	52.3	105	36-173	
Diisopropyl ether	ug/kg	50	52.6	105	68-144	
Ethylbenzene	ug/kg	50	56.5	113	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	55.0	110	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	56.3	113	77-143	
m&p-Xylene	ug/kg	100	112	112	72-138	
Methyl-tert-butyl ether	ug/kg	50	58.5	117	2-138	
Methylene Chloride	ug/kg	50	65.4	131	69-136	
n-Butylbenzene	ug/kg	50	53.2	106	65-128	
n-Propylbenzene	ug/kg	50	55.1	110	72-139	
Naphthalene	ug/kg	50	57.1	114	61-138	
o-Xylene	ug/kg	50	56.7	113	74-137	
p-Isopropyltoluene	ug/kg	50	54.8	110	66-128	
sec-Butylbenzene	ug/kg	50	53.4	107	72-140	
Styrene	ug/kg	50	56.9	114	76-137	
tert-Butylbenzene	ug/kg	50	56.3	113	68-141	
Tetrachloroethene	ug/kg	50	57.0	114	72-136	
Toluene	ug/kg	50	55.4	111	69-139	
trans-1,2-Dichloroethene	ug/kg	50	58.6	117	72-144	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 131 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 382647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	56.6	113	73-135	
Trichloroethene	ug/kg	50	57.9	116	75-136	
Trichlorofluoromethane	ug/kg	50	56.9	114	69-144	
Vinyl acetate	ug/kg	100	88.0	88	50-150	
Vinyl chloride	ug/kg	50	52.1	104	61-145	
Xylene (Total)	ug/kg	150	168	112	73-138	
1,2-Dichloroethane-d4 (S)	%			102	69-121	
4-Bromofluorobenzene (S)	%			99	74-115	
Dibromofluoromethane (S)	%			100	79-116	
Toluene-d8 (S)	%			101	88-110	

SAMPLE DUPLICATE: 384258

Parameter	Units	9259760010 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		
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		
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		
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	ND		
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		

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 132 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

SAMPLE DUPLICATE: 384258

Parameter	Units	9259760010 Result	Dup Result	RPD	Qualifiers
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	1180	1310	11	
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		
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	ND		
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		
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	2460	2630	7	
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg		ND		
1,2-Dichloroethane-d4 (S)	%	112	101	10	
4-Bromofluorobenzene (S)	%	97	99	2	
Dibromofluoromethane (S)	%	102	99	3	
Toluene-d8 (S)	%	101	99	2	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: MSV/9468 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9259999003, 9259999004, 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999012, 9259999013, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999021, 9259999022, 9259999023

METHOD BLANK: 384138 Matrix: Solid
Associated Lab Samples: 9259999003, 9259999004, 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999012, 9259999013, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999021, 9259999022, 9259999023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,1-Dichloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,1-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:27	
1,1-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:27	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/24/09 22:27	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/24/09 22:27	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/24/09 22:27	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,2-Dichloroethane	ug/kg	ND	5.0	12/24/09 22:27	
1,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:27	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
1,3-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:27	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
2,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:27	
2-Butanone (MEK)	ug/kg	ND	100	12/24/09 22:27	
2-Chlorotoluene	ug/kg	ND	5.0	12/24/09 22:27	
2-Hexanone	ug/kg	ND	50.0	12/24/09 22:27	
4-Chlorotoluene	ug/kg	ND	5.0	12/24/09 22:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/24/09 22:27	
Acetone	ug/kg	ND	100	12/24/09 22:27	
Benzene	ug/kg	ND	5.0	12/24/09 22:27	
Bromobenzene	ug/kg	ND	5.0	12/24/09 22:27	
Bromochloromethane	ug/kg	ND	5.0	12/24/09 22:27	
Bromodichloromethane	ug/kg	ND	5.0	12/24/09 22:27	
Bromoform	ug/kg	ND	5.0	12/24/09 22:27	
Bromomethane	ug/kg	ND	10.0	12/24/09 22:27	
Carbon tetrachloride	ug/kg	ND	5.0	12/24/09 22:27	
Chlorobenzene	ug/kg	ND	5.0	12/24/09 22:27	
Chloroethane	ug/kg	ND	10.0	12/24/09 22:27	
Chloroform	ug/kg	ND	5.0	12/24/09 22:27	
Chloromethane	ug/kg	ND	10.0	12/24/09 22:27	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:27	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 384138

Matrix: Solid

Associated Lab Samples: 9259999003, 9259999004, 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999012, 9259999013, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999021, 9259999022, 9259999023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:27	
Dibromochloromethane	ug/kg	ND	5.0	12/24/09 22:27	
Dibromomethane	ug/kg	ND	5.0	12/24/09 22:27	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/24/09 22:27	
Diisopropyl ether	ug/kg	ND	5.0	12/24/09 22:27	
Ethylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/24/09 22:27	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/24/09 22:27	
m&p-Xylene	ug/kg	ND	10.0	12/24/09 22:27	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/24/09 22:27	
Methylene Chloride	ug/kg	ND	20.0	12/24/09 22:27	
n-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
n-Propylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
Naphthalene	ug/kg	ND	5.0	12/24/09 22:27	
o-Xylene	ug/kg	ND	5.0	12/24/09 22:27	
p-Isopropyltoluene	ug/kg	ND	5.0	12/24/09 22:27	
sec-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
Styrene	ug/kg	ND	5.0	12/24/09 22:27	
tert-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:27	
Tetrachloroethene	ug/kg	ND	5.0	12/24/09 22:27	
Toluene	ug/kg	ND	5.0	12/24/09 22:27	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:27	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:27	
Trichloroethene	ug/kg	ND	5.0	12/24/09 22:27	
Trichlorofluoromethane	ug/kg	ND	5.0	12/24/09 22:27	
Vinyl acetate	ug/kg	ND	50.0	12/24/09 22:27	
Vinyl chloride	ug/kg	ND	10.0	12/24/09 22:27	
Xylene (Total)	ug/kg	ND	10.0	12/24/09 22:27	
1,2-Dichloroethane-d4 (S)	%	120	69-121	12/24/09 22:27	
4-Bromofluorobenzene (S)	%	95	74-115	12/24/09 22:27	
Dibromofluoromethane (S)	%	103	79-116	12/24/09 22:27	
Toluene-d8 (S)	%	101	88-110	12/24/09 22:27	

LABORATORY CONTROL SAMPLE: 384139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.0	100	75-137	
1,1,1-Trichloroethane	ug/kg	50	54.8	110	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.5	93	74-133	
1,1,2-Trichloroethane	ug/kg	50	51.9	104	79-129	
1,1-Dichloroethane	ug/kg	50	69.5	139	72-139	
1,1-Dichloroethene	ug/kg	50	58.0	116	69-154	
1,1-Dichloropropene	ug/kg	50	46.4	93	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	44.3	89	71-150	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 135 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank

Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	49.8	100	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	42.4	85	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	49.2	98	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	55.4	111	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	47.4	95	77-136	
1,2-Dichlorobenzene	ug/kg	50	47.4	95	75-141	
1,2-Dichloroethane	ug/kg	50	56.6	113	74-134	
1,2-Dichloropropane	ug/kg	50	50.8	102	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	48.7	97	65-128	
1,3-Dichlorobenzene	ug/kg	50	46.9	94	76-133	
1,3-Dichloropropane	ug/kg	50	49.5	99	79-132	
1,4-Dichlorobenzene	ug/kg	50	45.8	92	75-137	
2,2-Dichloropropane	ug/kg	50	60.1	120	73-137	
2-Butanone (MEK)	ug/kg	100	104	104	61-138	
2-Chlorotoluene	ug/kg	50	48.2	96	73-138	
2-Hexanone	ug/kg	100	108	108	58-159	
4-Chlorotoluene	ug/kg	50	49.0	98	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	111	111	74-139	
Acetone	ug/kg	100	141	141	58-150	
Benzene	ug/kg	50	48.6	97	71-140	
Bromobenzene	ug/kg	50	51.3	103	72-144	
Bromochloromethane	ug/kg	50	71.3	143	78-133	L3
Bromodichloromethane	ug/kg	50	52.4	105	78-133	
Bromoform	ug/kg	50	49.2	98	74-132	
Bromomethane	ug/kg	50	57.3	115	63-184	
Carbon tetrachloride	ug/kg	50	67.1	134	73-143	
Chlorobenzene	ug/kg	50	48.8	98	77-137	
Chloroethane	ug/kg	50	53.2	106	68-146	
Chloroform	ug/kg	50	55.4	111	75-137	
Chloromethane	ug/kg	50	46.1	92	54-143	
cis-1,2-Dichloroethene	ug/kg	50	65.0	130	71-143	
cis-1,3-Dichloropropene	ug/kg	50	49.8	100	76-133	
Dibromochloromethane	ug/kg	50	49.2	98	77-131	
Dibromomethane	ug/kg	50	54.9	110	63-184	
Dichlorodifluoromethane	ug/kg	50	45.7	91	36-173	
Diisopropyl ether	ug/kg	50	56.9	114	68-144	
Ethylbenzene	ug/kg	50	47.8	96	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	46.6	93	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	47.7	95	77-143	
m&p-Xylene	ug/kg	100	94.9	95	72-138	
Methyl-tert-butyl ether	ug/kg	50	56.6	113	2-138	
Methylene Chloride	ug/kg	50	61.7	123	69-136	
n-Butylbenzene	ug/kg	50	44.8	90	65-128	
n-Propylbenzene	ug/kg	50	47.7	95	72-139	
Naphthalene	ug/kg	50	49.6	99	61-138	
o-Xylene	ug/kg	50	47.8	96	74-137	
p-Isopropyltoluene	ug/kg	50	47.0	94	66-128	
sec-Butylbenzene	ug/kg	50	45.9	92	72-140	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 136 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	50	47.0	94	76-137	
tert-Butylbenzene	ug/kg	50	49.5	99	68-141	
Tetrachloroethene	ug/kg	50	47.7	95	72-136	
Toluene	ug/kg	50	48.1	96	69-139	
trans-1,2-Dichloroethene	ug/kg	50	54.4	109	72-144	
trans-1,3-Dichloropropene	ug/kg	50	50.3	101	73-135	
Trichloroethene	ug/kg	50	52.0	104	75-136	
Trichlorofluoromethane	ug/kg	50	55.5	111	69-144	
Vinyl acetate	ug/kg	100	41.8J	42	50-150 L0	
Vinyl chloride	ug/kg	50	44.7	89	61-145	
Xylene (Total)	ug/kg	150	143	95	73-138	
1,2-Dichloroethane-d4 (S)	%			113	69-121	
4-Bromofluorobenzene (S)	%			98	74-115	
Dibromofluoromethane (S)	%			100	79-116	
Toluene-d8 (S)	%			100	88-110	

MATRIX SPIKE SAMPLE: 384385

Parameter	Units	9259999017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	42.6	42.0	98	33-158	
Benzene	ug/kg	ND	42.6	40.3	95	46-143	
Chlorobenzene	ug/kg	ND	42.6	41.5	97	29-159	
Toluene	ug/kg	ND	42.6	41.0	96	38-145	
Trichloroethene	ug/kg	ND	42.6	41.0	96	70-130	
1,2-Dichloroethane-d4 (S)	%				103	69-121	
4-Bromofluorobenzene (S)	%				99	74-115	
Dibromofluoromethane (S)	%				98	79-116	
Toluene-d8 (S)	%				100	88-110	

SAMPLE DUPLICATE: 384237

Parameter	Units	9259999009 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		

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

SAMPLE DUPLICATE: 384237

Parameter	Units	9259999009 Result	Dup Result	RPD	Qualifiers
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		
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	19.1J		
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	ND		
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		

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 138 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

SAMPLE DUPLICATE: 384237

Parameter	Units	9259999009 Result	Dup Result	RPD	Qualifiers
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		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	120	108	16	
4-Bromofluorobenzene (S)	%	95	99	1	
Dibromofluoromethane (S)	%	101	100	6	
Toluene-d8 (S)	%	101	100	7	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: MSV/9469 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9259999001, 9259999005, 9259999011, 9259999014, 9259999024

METHOD BLANK: 384140 Matrix: Solid
Associated Lab Samples: 9259999001, 9259999005, 9259999011, 9259999014, 9259999024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,1-Dichloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,1-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:09	
1,1-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:09	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/24/09 22:09	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/24/09 22:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/24/09 22:09	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,2-Dichloroethane	ug/kg	ND	5.0	12/24/09 22:09	
1,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:09	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
1,3-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:09	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
2,2-Dichloropropane	ug/kg	ND	5.0	12/24/09 22:09	
2-Butanone (MEK)	ug/kg	ND	100	12/24/09 22:09	
2-Chlorotoluene	ug/kg	ND	5.0	12/24/09 22:09	
2-Hexanone	ug/kg	ND	50.0	12/24/09 22:09	
4-Chlorotoluene	ug/kg	ND	5.0	12/24/09 22:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/24/09 22:09	
Acetone	ug/kg	ND	100	12/24/09 22:09	
Benzene	ug/kg	ND	5.0	12/24/09 22:09	
Bromobenzene	ug/kg	ND	5.0	12/24/09 22:09	
Bromochloromethane	ug/kg	ND	5.0	12/24/09 22:09	
Bromodichloromethane	ug/kg	ND	5.0	12/24/09 22:09	
Bromoform	ug/kg	ND	5.0	12/24/09 22:09	
Bromomethane	ug/kg	ND	10.0	12/24/09 22:09	
Carbon tetrachloride	ug/kg	ND	5.0	12/24/09 22:09	
Chlorobenzene	ug/kg	ND	5.0	12/24/09 22:09	
Chloroethane	ug/kg	ND	10.0	12/24/09 22:09	
Chloroform	ug/kg	ND	5.0	12/24/09 22:09	
Chloromethane	ug/kg	ND	10.0	12/24/09 22:09	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:09	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:09	
Dibromochloromethane	ug/kg	ND	5.0	12/24/09 22:09	
Dibromomethane	ug/kg	ND	5.0	12/24/09 22:09	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/24/09 22:09	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 140 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 384140

Matrix: Solid

Associated Lab Samples: 9259999001, 9259999005, 9259999011, 9259999014, 9259999024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	12/24/09 22:09	
Ethylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/24/09 22:09	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/24/09 22:09	
m&p-Xylene	ug/kg	ND	10.0	12/24/09 22:09	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/24/09 22:09	
Methylene Chloride	ug/kg	ND	20.0	12/24/09 22:09	
n-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
n-Propylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
Naphthalene	ug/kg	ND	5.0	12/24/09 22:09	
o-Xylene	ug/kg	ND	5.0	12/24/09 22:09	
p-Isopropyltoluene	ug/kg	ND	5.0	12/24/09 22:09	
sec-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
Styrene	ug/kg	ND	5.0	12/24/09 22:09	
tert-Butylbenzene	ug/kg	ND	5.0	12/24/09 22:09	
Tetrachloroethene	ug/kg	ND	5.0	12/24/09 22:09	
Toluene	ug/kg	ND	5.0	12/24/09 22:09	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/09 22:09	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/09 22:09	
Trichloroethene	ug/kg	ND	5.0	12/24/09 22:09	
Trichlorofluoromethane	ug/kg	ND	5.0	12/24/09 22:09	
Vinyl acetate	ug/kg	ND	50.0	12/24/09 22:09	
Vinyl chloride	ug/kg	ND	10.0	12/24/09 22:09	
Xylene (Total)	ug/kg	ND	10.0	12/24/09 22:09	
1,2-Dichloroethane-d4 (S)	%	122	69-121	12/24/09 22:09	S0
4-Bromofluorobenzene (S)	%	95	74-115	12/24/09 22:09	
Dibromofluoromethane (S)	%	102	79-116	12/24/09 22:09	
Toluene-d8 (S)	%	102	88-110	12/24/09 22:09	

LABORATORY CONTROL SAMPLE: 384141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.6	101	75-137	
1,1,1-Trichloroethane	ug/kg	50	55.9	112	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.9	94	74-133	
1,1,2-Trichloroethane	ug/kg	50	52.2	104	79-129	
1,1-Dichloroethane	ug/kg	50	71.2	142	72-139	L3
1,1-Dichloroethene	ug/kg	50	59.4	119	69-154	
1,1-Dichloropropene	ug/kg	50	47.2	94	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	44.6	89	71-150	
1,2,3-Trichloropropane	ug/kg	50	50.0	100	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	41.1	82	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	48.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	54.9	110	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	48.4	97	77-136	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 141 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	47.4	95	75-141	
1,2-Dichloroethane	ug/kg	50	57.4	115	74-134	
1,2-Dichloropropane	ug/kg	50	52.5	105	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	48.1	96	65-128	
1,3-Dichlorobenzene	ug/kg	50	45.5	91	76-133	
1,3-Dichloropropane	ug/kg	50	49.1	98	79-132	
1,4-Dichlorobenzene	ug/kg	50	44.9	90	75-137	
2,2-Dichloropropane	ug/kg	50	61.1	122	73-137	
2-Butanone (MEK)	ug/kg	100	109	109	61-138	
2-Chlorotoluene	ug/kg	50	48.3	97	73-138	
2-Hexanone	ug/kg	100	110	110	58-159	
4-Chlorotoluene	ug/kg	50	48.3	97	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	115	115	74-139	
Acetone	ug/kg	100	134	134	58-150	
Benzene	ug/kg	50	49.5	99	71-140	
Bromobenzene	ug/kg	50	50.2	100	72-144	
Bromochloromethane	ug/kg	50	74.7	149	78-133	L3
Bromodichloromethane	ug/kg	50	53.6	107	78-133	
Bromoform	ug/kg	50	50.6	101	74-132	
Bromomethane	ug/kg	50	49.8	100	63-184	
Carbon tetrachloride	ug/kg	50	68.5	137	73-143	
Chlorobenzene	ug/kg	50	48.9	98	77-137	
Chloroethane	ug/kg	50	53.6	107	68-146	
Chloroform	ug/kg	50	62.6	125	75-137	
Chloromethane	ug/kg	50	46.7	93	54-143	
cis-1,2-Dichloroethene	ug/kg	50	67.7	135	71-143	
cis-1,3-Dichloropropene	ug/kg	50	50.6	101	76-133	
Dibromochloromethane	ug/kg	50	49.5	99	77-131	
Dibromomethane	ug/kg	50	55.8	112	63-184	
Dichlorodifluoromethane	ug/kg	50	46.9	94	36-173	
Diisopropyl ether	ug/kg	50	58.1	116	68-144	
Ethylbenzene	ug/kg	50	48.1	96	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	48.2	96	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	47.9	96	77-143	
m&p-Xylene	ug/kg	100	95.0	95	72-138	
Methyl-tert-butyl ether	ug/kg	50	57.4	115	2-138	
Methylene Chloride	ug/kg	50	61.9	124	69-136	
n-Butylbenzene	ug/kg	50	44.5	89	65-128	
n-Propylbenzene	ug/kg	50	47.7	95	72-139	
Naphthalene	ug/kg	50	48.5	97	61-138	
o-Xylene	ug/kg	50	50.0	100	74-137	
p-Isopropyltoluene	ug/kg	50	46.5	93	66-128	
sec-Butylbenzene	ug/kg	50	46.0	92	72-140	
Styrene	ug/kg	50	47.3	95	76-137	
tert-Butylbenzene	ug/kg	50	49.7	99	68-141	
Tetrachloroethene	ug/kg	50	47.2	94	72-136	
Toluene	ug/kg	50	49.0	98	69-139	
trans-1,2-Dichloroethene	ug/kg	50	55.1	110	72-144	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 142 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	50.7	101	73-135	
Trichloroethene	ug/kg	50	52.5	105	75-136	
Trichlorofluoromethane	ug/kg	50	56.8	114	69-144	
Vinyl acetate	ug/kg	100	41.4J	41	50-150 L0	
Vinyl chloride	ug/kg	50	45.4	91	61-145	
Xylene (Total)	ug/kg	150	145	97	73-138	
1,2-Dichloroethane-d4 (S)	%			116	69-121	
4-Bromofluorobenzene (S)	%			98	74-115	
Dibromofluoromethane (S)	%			102	79-116	
Toluene-d8 (S)	%			101	88-110	

MATRIX SPIKE SAMPLE: 384240

Parameter	Units	9259999014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	49.9	68.9	138	33-158	
Benzene	ug/kg	ND	49.9	61.2	123	46-143	
Chlorobenzene	ug/kg	ND	49.9	60.7	122	29-159	
Toluene	ug/kg	ND	49.9	61.2	123	38-145	
Trichloroethene	ug/kg	ND	49.9	61.7	124	70-130	
1,2-Dichloroethane-d4 (S)	%				107	69-121	
4-Bromofluorobenzene (S)	%				97	74-115	
Dibromofluoromethane (S)	%				100	79-116	
Toluene-d8 (S)	%				99	88-110	

SAMPLE DUPLICATE: 384239

Parameter	Units	9259999011 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		

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 143 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

SAMPLE DUPLICATE: 384239

Parameter	Units	9259999011 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	16.9J		
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	ND		
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		

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 144 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

SAMPLE DUPLICATE: 384239

Parameter	Units	9259999011 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	128	118	14	
4-Bromofluorobenzene (S)	%	94	101	1	
Dibromofluoromethane (S)	%	126	139	4	S2
Toluene-d8 (S)	%	101	101	5	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch:	MSV/9479	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	9259999020		

METHOD BLANK:	384254	Matrix:	Solid
Associated Lab Samples:	9259999020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,1-Dichloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,1-Dichloroethene	ug/kg	ND	5.0	12/27/09 12:46	
1,1-Dichloropropene	ug/kg	ND	5.0	12/27/09 12:46	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/27/09 12:46	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/27/09 12:46	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/27/09 12:46	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,2-Dichloroethane	ug/kg	ND	5.0	12/27/09 12:46	
1,2-Dichloropropane	ug/kg	ND	5.0	12/27/09 12:46	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
1,3-Dichloropropane	ug/kg	ND	5.0	12/27/09 12:46	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
2,2-Dichloropropane	ug/kg	ND	5.0	12/27/09 12:46	
2-Butanone (MEK)	ug/kg	ND	100	12/27/09 12:46	
2-Chlorotoluene	ug/kg	ND	5.0	12/27/09 12:46	
2-Hexanone	ug/kg	ND	50.0	12/27/09 12:46	
4-Chlorotoluene	ug/kg	ND	5.0	12/27/09 12:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/27/09 12:46	
Acetone	ug/kg	ND	100	12/27/09 12:46	
Benzene	ug/kg	ND	5.0	12/27/09 12:46	
Bromobenzene	ug/kg	ND	5.0	12/27/09 12:46	
Bromochloromethane	ug/kg	ND	5.0	12/27/09 12:46	
Bromodichloromethane	ug/kg	ND	5.0	12/27/09 12:46	
Bromoform	ug/kg	ND	5.0	12/27/09 12:46	
Bromomethane	ug/kg	ND	10.0	12/27/09 12:46	
Carbon tetrachloride	ug/kg	ND	5.0	12/27/09 12:46	
Chlorobenzene	ug/kg	ND	5.0	12/27/09 12:46	
Chloroethane	ug/kg	ND	10.0	12/27/09 12:46	
Chloroform	ug/kg	ND	5.0	12/27/09 12:46	
Chloromethane	ug/kg	ND	10.0	12/27/09 12:46	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/27/09 12:46	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/27/09 12:46	
Dibromochloromethane	ug/kg	ND	5.0	12/27/09 12:46	
Dibromomethane	ug/kg	ND	5.0	12/27/09 12:46	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/27/09 12:46	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 146 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

METHOD BLANK: 384254

Matrix: Solid

Associated Lab Samples: 9259999020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	12/27/09 12:46	
Ethylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/27/09 12:46	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/27/09 12:46	
m&p-Xylene	ug/kg	ND	10.0	12/27/09 12:46	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/27/09 12:46	
Methylene Chloride	ug/kg	ND	20.0	12/27/09 12:46	
n-Butylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
n-Propylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
Naphthalene	ug/kg	ND	5.0	12/27/09 12:46	
o-Xylene	ug/kg	ND	5.0	12/27/09 12:46	
p-Isopropyltoluene	ug/kg	ND	5.0	12/27/09 12:46	
sec-Butylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
Styrene	ug/kg	ND	5.0	12/27/09 12:46	
tert-Butylbenzene	ug/kg	ND	5.0	12/27/09 12:46	
Tetrachloroethene	ug/kg	ND	5.0	12/27/09 12:46	
Toluene	ug/kg	ND	5.0	12/27/09 12:46	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/27/09 12:46	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/27/09 12:46	
Trichloroethene	ug/kg	ND	5.0	12/27/09 12:46	
Trichlorofluoromethane	ug/kg	ND	5.0	12/27/09 12:46	
Vinyl acetate	ug/kg	ND	50.0	12/27/09 12:46	
Vinyl chloride	ug/kg	ND	10.0	12/27/09 12:46	
Xylene (Total)	ug/kg	ND	10.0	12/27/09 12:46	
1,2-Dichloroethane-d4 (S)	%	103	69-121	12/27/09 12:46	
4-Bromofluorobenzene (S)	%	100	74-115	12/27/09 12:46	
Dibromofluoromethane (S)	%	100	79-116	12/27/09 12:46	
Toluene-d8 (S)	%	100	88-110	12/27/09 12:46	

LABORATORY CONTROL SAMPLE: 384255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.1	106	75-137	
1,1,1-Trichloroethane	ug/kg	50	56.1	112	70-140	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.5	103	74-133	
1,1,2-Trichloroethane	ug/kg	50	54.2	108	79-129	
1,1-Dichloroethane	ug/kg	50	54.2	108	72-139	
1,1-Dichloroethene	ug/kg	50	58.1	116	69-154	
1,1-Dichloropropene	ug/kg	50	53.5	107	74-138	
1,2,3-Trichlorobenzene	ug/kg	50	55.9	112	71-150	
1,2,3-Trichloropropane	ug/kg	50	50.5	101	74-135	
1,2,4-Trichlorobenzene	ug/kg	50	53.9	108	68-150	
1,2,4-Trimethylbenzene	ug/kg	50	55.6	111	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	55.1	110	65-146	
1,2-Dibromoethane (EDB)	ug/kg	50	53.0	106	77-136	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 147 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384255

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	53.1	106	74-134	
1,2-Dichloropropane	ug/kg	50	53.3	107	77-138	
1,3,5-Trimethylbenzene	ug/kg	50	54.4	109	65-128	
1,3-Dichlorobenzene	ug/kg	50	52.6	105	76-133	
1,3-Dichloropropane	ug/kg	50	53.5	107	79-132	
1,4-Dichlorobenzene	ug/kg	50	52.1	104	75-137	
2,2-Dichloropropane	ug/kg	50	58.8	118	73-137	
2-Butanone (MEK)	ug/kg	100	114	114	61-138	
2-Chlorotoluene	ug/kg	50	52.2	104	73-138	
2-Hexanone	ug/kg	100	112	112	58-159	
4-Chlorotoluene	ug/kg	50	54.6	109	75-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	111	111	74-139	
Acetone	ug/kg	100	117	117	58-150	
Benzene	ug/kg	50	53.2	106	71-140	
Bromobenzene	ug/kg	50	54.3	109	72-144	
Bromochloromethane	ug/kg	50	53.0	106	78-133	
Bromodichloromethane	ug/kg	50	53.0	106	78-133	
Bromoform	ug/kg	50	54.1	108	74-132	
Bromomethane	ug/kg	50	60.3	121	63-184	
Carbon tetrachloride	ug/kg	50	65.8	132	73-143	
Chlorobenzene	ug/kg	50	54.4	109	77-137	
Chloroethane	ug/kg	50	57.7	115	68-146	
Chloroform	ug/kg	50	55.0	110	75-137	
Chloromethane	ug/kg	50	54.1	108	54-143	
cis-1,2-Dichloroethene	ug/kg	50	58.5	117	71-143	
cis-1,3-Dichloropropene	ug/kg	50	53.8	108	76-133	
Dibromochloromethane	ug/kg	50	53.0	106	77-131	
Dibromomethane	ug/kg	50	56.7	113	63-184	
Dichlorodifluoromethane	ug/kg	50	50.3	101	36-173	
Diisopropyl ether	ug/kg	50	51.0	102	68-144	
Ethylbenzene	ug/kg	50	54.0	108	69-141	
Hexachloro-1,3-butadiene	ug/kg	50	56.9	114	70-152	
Isopropylbenzene (Cumene)	ug/kg	50	54.3	109	77-143	
m&p-Xylene	ug/kg	100	107	107	72-138	
Methyl-tert-butyl ether	ug/kg	50	56.8	114	2-138	
Methylene Chloride	ug/kg	50	57.7	115	69-136	
n-Butylbenzene	ug/kg	50	53.4	107	65-128	
n-Propylbenzene	ug/kg	50	54.1	108	72-139	
Naphthalene	ug/kg	50	59.1	118	61-138	
o-Xylene	ug/kg	50	52.0	104	74-137	
p-Isopropyltoluene	ug/kg	50	54.4	109	66-128	
sec-Butylbenzene	ug/kg	50	53.6	107	72-140	
Styrene	ug/kg	50	55.3	111	76-137	
tert-Butylbenzene	ug/kg	50	54.0	108	68-141	
Tetrachloroethene	ug/kg	50	54.3	109	72-136	
Toluene	ug/kg	50	52.8	106	69-139	
trans-1,2-Dichloroethene	ug/kg	50	56.6	113	72-144	

Date: 01/11/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 148 of 153

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

LABORATORY CONTROL SAMPLE: 384255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	54.1	108	73-135	
Trichloroethene	ug/kg	50	54.5	109	75-136	
Trichlorofluoromethane	ug/kg	50	56.8	114	69-144	
Vinyl acetate	ug/kg	100	93.1	93	50-150	
Vinyl chloride	ug/kg	50	58.5	117	61-145	
Xylene (Total)	ug/kg	150	159	106	73-138	
1,2-Dichloroethane-d4 (S)	%			99	69-121	
4-Bromofluorobenzene (S)	%			99	74-115	
Dibromofluoromethane (S)	%			99	79-116	
Toluene-d8 (S)	%			99	88-110	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: PMST/2945 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9259999001, 9259999002, 9259999003, 9259999004, 9259999005

SAMPLE DUPLICATE: 383175

Parameter	Units	9259968021 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.2	15.3	1	

SAMPLE DUPLICATE: 383176

Parameter	Units	9259999005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.2	16.3	6	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: PMST/2946 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9259999006, 9259999007, 9259999008, 9259999009, 9259999010, 9259999011, 9259999012, 9259999013, 9259999014, 9259999015, 9259999016, 9259999017, 9259999018, 9259999019, 9259999020

SAMPLE DUPLICATE: 383178

Parameter	Units	9259653001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.2	10.7	28	R1

SAMPLE DUPLICATE: 383179

Parameter	Units	9259999020 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.8	11.3	4	

QUALITY CONTROL DATA

Project: TT-2 Tank Yank
Pace Project No.: 9259999

QC Batch: PMST/2947 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9259999021, 9259999022, 9259999023, 9259999024, 9259999025

SAMPLE DUPLICATE: 383199

Parameter	Units	9259999021 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.7	9.9	8	

SAMPLE DUPLICATE: 383200

Parameter	Units	9259877003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.3	23.1	4	

QUALIFIERS

Project: TT-2 Tank Yank
Pace Project No.: 9259999

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H4	Sample re-extracted and analyzed outside of EPA method holding time.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
S6	Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090

FAX: 919.467.3515



www.encolabs.com

Thursday, December 31, 2009

Pace Analytical (PA007)

Attn: Ashley Nifong

9800 Kinney Ave. Suite 100

Huntersville, NC 28078

RE: Laboratory Results for

Project Number: 9259999, Project Name/Desc: TT-2 Tank Yank

ENCO Workorder: C915321

Dear Ashley Nifong,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, December 24, 2009.

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", with a stylized flourish at the end.

Stephanie Franz

Project Manager

Enclosure(s)



www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: TT-2506-1		Lab ID: C915321-01		Sampled: 12/15/09 11:10		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/12/10	12/24/09 13:01		12/24/2009 15:16			

Client ID: TT-2506-2		Lab ID: C915321-02		Sampled: 12/15/09 10:30		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/12/10	12/24/09 13:01		12/24/2009 15:45			

Client ID: TT-2506-3		Lab ID: C915321-03		Sampled: 12/15/09 11:02		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/12/10	12/24/09 13:01		12/24/2009 16:15			

Client ID: TT-2506-4		Lab ID: C915321-04		Sampled: 12/15/09 10:25		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/12/10	12/24/09 13:01		12/27/2009 10:30			

Client ID: TT-2506-B-10.8		Lab ID: C915321-05		Sampled: 12/15/09 15:45		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/12/10	12/24/09 13:01		12/27/2009 10:01			

Client ID: TT-2540-1		Lab ID: C915321-06		Sampled: 12/16/09 06:45		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/13/10	12/24/09 13:01		12/27/2009 10:59			

Client ID: TT-2540-2		Lab ID: C915321-07		Sampled: 12/16/09 11:47		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/13/10	12/24/09 13:01		12/27/2009 11:29			

Client ID: TT-2540-3		Lab ID: C915321-08		Sampled: 12/16/09 07:10		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/13/10	12/24/09 13:01		12/27/2009 11:58			

Client ID: TT-2540-4		Lab ID: C915321-09		Sampled: 12/16/09 07:30		Received: 12/24/09 10:20	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
MAVPH	01/13/10	12/24/09 13:01		12/28/2009 12:46			



www.encolabs.com

Client ID:	TT-2540-B-6	Lab ID: C915321-10	Sampled: 12/16/09 07:40	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/13/10	12/24/09 13:01	12/27/2009 13:02	

Client ID:	TT-2077A-1-9	Lab ID: C915321-11	Sampled: 12/18/09 10:22	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/15/10	12/24/09 13:01	12/27/2009 13:31	

Client ID:	TT-2077A-2-9	Lab ID: C915321-12	Sampled: 12/18/09 13:00	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/15/10	12/24/09 13:01	12/28/2009 13:16	

Client ID:	TT-2077A-3-9	Lab ID: C915321-13	Sampled: 12/18/09 13:20	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/15/10	12/24/09 13:01	12/27/2009 14:30	

Client ID:	TT-2077A-B-12	Lab ID: C915321-14	Sampled: 12/18/09 13:35	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/15/10	12/24/09 13:01	12/27/2009 15:42	

Client ID:	TT-2125-1	Lab ID: C915321-15	Sampled: 12/17/09 08:10	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 16:11	

Client ID:	TT-2125-2	Lab ID: C915321-16	Sampled: 12/17/09 08:30	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 16:41	

Client ID:	TT-2125-3	Lab ID: C915321-17	Sampled: 12/17/09 08:55	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 17:10	

Client ID:	TT-2125-4	Lab ID: C915321-18	Sampled: 12/17/09 08:45	Received: 12/24/09 10:20
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 17:40	



www.encolabs.com

Client ID: TT-2125-B-7	Lab ID: C915321-19	Sampled: 12/17/09 10:00	Received: 12/24/09 10:20
-------------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 18:10

Client ID: TT-2117-1	Lab ID: C915321-20	Sampled: 12/17/09 17:00	Received: 12/24/09 10:20
-----------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/14/10	12/24/09 13:01	12/27/2009 18:40

Client ID: TT-2117-2	Lab ID: C915321-21	Sampled: 12/17/09 12:20	Received: 12/24/09 10:20
-----------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/14/10	12/28/09 13:18	12/28/2009 14:46

Client ID: TT-2117-3	Lab ID: C915321-22	Sampled: 12/17/09 12:45	Received: 12/24/09 10:20
-----------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/14/10	12/28/09 13:18	12/28/2009 15:15

Client ID: TT-2117-4	Lab ID: C915321-23	Sampled: 12/17/09 12:30	Received: 12/24/09 10:20
-----------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/14/10	12/28/09 13:18	12/28/2009 16:14

Client ID: TT-2117-B-8	Lab ID: C915321-24	Sampled: 12/18/09 07:10	Received: 12/24/09 10:20
-------------------------------	---------------------------	--------------------------------	---------------------------------

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
MAVPH	01/15/10	12/28/09 13:18	12/28/2009 15:45

SAMPLE DETECTION SUMMARY

Client ID: TT-2506-2		Lab ID: C915321-02					
----------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C9-C10 Aromatics	0.310	J	0.286	1.64	mg/kg dry	MAVPH	

Client ID: TT-2506-4		Lab ID: C915321-04					
----------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C9-C10 Aromatics	1.67		0.286	1.64	mg/kg dry	MAVPH	

Client ID: TT-2506-B-10.8		Lab ID: C915321-05					
---------------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C5-C8 Aliphatics	18.0	D	0.554	5.54	mg/kg dry	MAVPH	
C9-C10 Aromatics	58.2	D	0.646	3.69	mg/kg dry	MAVPH	
C9-C12 Aliphatics	90.2	D	1.20	5.54	mg/kg dry	MAVPH	

Client ID: TT-2125-B-7		Lab ID: C915321-19					
------------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C9-C10 Aromatics	0.683	J	0.356	2.04	mg/kg dry	MAVPH	

Client ID: TT-2117-2		Lab ID: C915321-21					
----------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C5-C8 Aliphatics	0.520	J	0.292	2.92	mg/kg dry	MAVPH	
C9-C10 Aromatics	0.679	J	0.341	1.95	mg/kg dry	MAVPH	
C9-C12 Aliphatics	1.10	J	0.633	2.92	mg/kg dry	MAVPH	

Client ID: TT-2117-4		Lab ID: C915321-23					
----------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C9-C10 Aromatics	0.395	J	0.391	2.23	mg/kg dry	MAVPH	

Client ID: TT-2117-B-6		Lab ID: C915321-24					
------------------------	--	--------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
C5-C8 Aliphatics	8.01	D	0.535	5.35	mg/kg dry	MAVPH	
C9-C10 Aromatics	75.1	D	0.624	3.57	mg/kg dry	MAVPH	
C9-C12 Aliphatics	93.5	D	1.16	5.35	mg/kg dry	MAVPH	



www.encolabs.com

ANALYTICAL RESULTS

Description: TT-2506-1
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-01
Sampled: 12/15/09 11:10
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 81.3

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.256	U	mg/kg dry	1	0.256	2.56	9L24015	MAVPH	12/24/09 15:16	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.298	U	mg/kg dry	1	0.298	1.70	9L24015	MAVPH	12/24/09 15:16	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.554	U	mg/kg dry	1	0.554	2.56	9L24015	MAVPH	12/24/09 15:16	bpk	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,5-Dibromotoluene (FID)	9.33	1	8.52	110 %	70-130	9L24015	MAVPH	12/24/09 15:16	bpk		
2,5-Dibromotoluene (PID)	8.94	1	8.52	105 %	70-130	9L24015	MAVPH	12/24/09 15:16	bpk		

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



www.encolabs.com

Description: TT-2506-2
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-02
Sampled: 12/15/09 10:30
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 85.2

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.246	U	mg/kg dry	1	0.246	2.46	9L24015	MAVPH	12/24/09 15:45	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.310	J	mg/kg dry	1	0.286	1.64	9L24015	MAVPH	12/24/09 15:45	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.532	U	mg/kg dry	1	0.532	2.46	9L24015	MAVPH	12/24/09 15:45	bpk	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,5-Dibromotoluene (FID)	6.14	1	8.18	75 %	70-130	9L24015	MAVPH	12/24/09 15:45	bpk		
2,5-Dibromotoluene (PID)	6.87	1	8.18	84 %	70-130	9L24015	MAVPH	12/24/09 15:45	bpk		

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



www.encolabs.com

Description: TT-2506-3

Matrix: Solid

Project: TT-2 Tank Yank

Lab Sample ID: C915321-03

Sampled: 12/15/09 11:02

Sampled By: Client

Received: 12/24/09 10:20

Work Order: C915321

% Solids: 88.0

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.265	U	mg/kg dry	1	0.265	2.65	9L24015	MAVPH	12/24/09 16:15	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.309	U	mg/kg dry	1	0.309	1.76	9L24015	MAVPH	12/24/09 16:15	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.573	U	mg/kg dry	1	0.573	2.65	9L24015	MAVPH	12/24/09 16:15	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.25	1	8.82	105 %	70-130	9L24015	MAVPH	12/24/09 16:15	bpk	
2,5-Dibromotoluene (PID)	9.58	1	8.82	109 %	70-130	9L24015	MAVPH	12/24/09 16:15	bpk	

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



www.encolabs.com

Description: TT-2506-4
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-04
Sampled: 12/15/09 10:25
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 85.1

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.245	U	mg/kg dry	1	0.245	2.45	9L24015	MAVPH	12/27/09 10:30	bpk	
C9-C10 Aromatics [ECL-0024] ^	1.67		mg/kg dry	1	0.286	1.64	9L24015	MAVPH	12/27/09 10:30	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.532	U	mg/kg dry	1	0.532	2.45	9L24015	MAVPH	12/27/09 10:30	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	10.0	1	8.18	123 %	70-130	9L24015	MAVPH	12/27/09 10:30	bpk	
2,5-Dibromotoluene (PID)	9.93	1	8.18	121 %	70-130	9L24015	MAVPH	12/27/09 10:30	bpk	



www.encolabs.com

Description: TT-2506-B-10.8

Matrix: Solid

Project: TT-2 Tank Yank

Lab Sample ID: C915321-05

Sampled: 12/15/09 15:45

Sampled By: Client

Received: 12/24/09 10:20

Work Order: C915321

% Solids: 82.8

Volatile 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>
C5-C8 Aliphatics [ECL-0022] ^	18.0	D	mg/kg dry	2	0.554	5.54	9L24015	MAVPH	12/27/09 10:01	bpk	
C9-C10 Aromatics [ECL-0024] ^	58.2	D	mg/kg dry	2	0.646	3.69	9L24015	MAVPH	12/27/09 10:01	bpk	
C9-C12 Aliphatics [ECL-0025] ^	90.2	D	mg/kg dry	2	1.20	5.54	9L24015	MAVPH	12/27/09 10:01	bpk	

<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>
2,5-Dibromotoluene (FID)	31.4	2	9.23	340 %	70-130	9L24015	MAVPH	12/27/09 10:01	bpk	QS-06
2,5-Dibromotoluene (PID)	12.5	2	9.23	135 %	70-130	9L24015	MAVPH	12/27/09 10:01	bpk	QS-06

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



www.encolabs.com

Description: TT-2540-1
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-06
Sampled: 12/16/09 06:45
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 87.6

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.251	U	mg/kg dry	1	0.251	2.51	9L24015	MAVPH	12/27/09 10:59	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.293	U	mg/kg dry	1	0.293	1.67	9L24015	MAVPH	12/27/09 10:59	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.544	U	mg/kg dry	1	0.544	2.51	9L24015	MAVPH	12/27/09 10:59	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	8.45	1	8.37	101 %	70-130	9L24015	MAVPH	12/27/09 10:59	bpk	
2,5-Dibromotoluene (PID)	9.12	1	8.37	109 %	70-130	9L24015	MAVPH	12/27/09 10:59	bpk	

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



www.encolabs.com

Description: TT-2540-2
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-07
Sampled: 12/16/09 11:47
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 87.7

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.246	U	mg/kg dry	1	0.246	2.46	9L24015	MAVPH	12/27/09 11:29	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.287	U	mg/kg dry	1	0.287	1.64	9L24015	MAVPH	12/27/09 11:29	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.532	U	mg/kg dry	1	0.532	2.46	9L24015	MAVPH	12/27/09 11:29	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	8.48	1	8.19	104 %	70-130	9L24015	MAVPH	12/27/09 11:29	bpk	
2,5-Dibromotoluene (PID)	9.84	1	8.19	120 %	70-130	9L24015	MAVPH	12/27/09 11:29	bpk	

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



www.encolabs.com

Description: TT-2540-3
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-08
Sampled: 12/16/09 07:10
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 87.5

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.267	U	mg/kg dry	1	0.267	2.67	9L24015	MAVPH	12/27/09 11:58	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.312	U	mg/kg dry	1	0.312	1.78	9L24015	MAVPH	12/27/09 11:58	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.579	U	mg/kg dry	1	0.579	2.67	9L24015	MAVPH	12/27/09 11:58	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	27.3	1	8.90	307 %	70-130	9L24015	MAVPH	12/27/09 11:58	bpk	QS-03
2,5-Dibromotoluene (PID)	22.8	1	8.90	257 %	70-130	9L24015	MAVPH	12/27/09 11:58	bpk	QS-03

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



www.encolabs.com

Description: TT-2540-4
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-09
Sampled: 12/16/09 07:30
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 87.9

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.248	U	mg/kg dry	1	0.248	2.48	9L24015	MAVPH	12/28/09 12:46	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.289	U	mg/kg dry	1	0.289	1.65	9L24015	MAVPH	12/28/09 12:46	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.537	U	mg/kg dry	1	0.537	2.48	9L24015	MAVPH	12/28/09 12:46	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	8.59	1	8.26	104 %	70-130	9L24015	MAVPH	12/28/09 12:46	bpk	
2,5-Dibromotoluene (PID)	8.96	1	8.26	109 %	70-130	9L24015	MAVPH	12/28/09 12:46	bpk	

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



www.encolabs.com

Description: TT-2540-B-6
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-10
Sampled: 12/16/09 07:40
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 88.5

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.278	U	mg/kg dry	1	0.278	2.78	9L24015	MAVPH	12/27/09 13:02	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.324	U	mg/kg dry	1	0.324	1.85	9L24015	MAVPH	12/27/09 13:02	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.602	U	mg/kg dry	1	0.602	2.78	9L24015	MAVPH	12/27/09 13:02	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	10.6	1	9.26	115 %	70-130	9L24015	MAVPH	12/27/09 13:02	bpk	
2,5-Dibromotoluene (PID)	10.6	1	9.26	115 %	70-130	9L24015	MAVPH	12/27/09 13:02	bpk	

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



www.encolabs.com

Description: TT-2077A-1-9
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-11
Sampled: 12/18/09 10:22
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 82.8

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.270	U	mg/kg dry	1	0.270	2.70	9L24015	MAVPH	12/27/09 13:31	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.315	U	mg/kg dry	1	0.315	1.80	9L24015	MAVPH	12/27/09 13:31	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.586	U	mg/kg dry	1	0.586	2.70	9L24015	MAVPH	12/27/09 13:31	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.34	1	9.01	104 %	70-130	9L24015	MAVPH	12/27/09 13:31	bpk	
2,5-Dibromotoluene (PID)	9.82	1	9.01	109 %	70-130	9L24015	MAVPH	12/27/09 13:31	bpk	

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



www.encolabs.com

Description: TT-2077A-2-9
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-12
Sampled: 12/18/09 13:00
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 88.8

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.256	U	mg/kg dry	1	0.256	2.56	9L24015	MAVPH	12/28/09 13:16	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.299	U	mg/kg dry	1	0.299	1.71	9L24015	MAVPH	12/28/09 13:16	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.555	U	mg/kg dry	1	0.555	2.56	9L24015	MAVPH	12/28/09 13:16	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	8.66	1	8.54	101 %	70-130	9L24015	MAVPH	12/28/09 13:16	bpk	
2,5-Dibromotoluene (PID)	9.10	1	8.54	107 %	70-130	9L24015	MAVPH	12/28/09 13:16	bpk	

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



www.encolabs.com

Description: TT-2077A-3-9
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-13
Sampled: 12/18/09 13:20
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 79.6

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.299	U	mg/kg dry	1	0.299	2.99	9L24015	MAVPH	12/27/09 14:30	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.349	U	mg/kg dry	1	0.349	1.99	9L24015	MAVPH	12/27/09 14:30	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.648	U	mg/kg dry	1	0.648	2.99	9L24015	MAVPH	12/27/09 14:30	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.06	1	9.97	91 %	70-130	9L24015	MAVPH	12/27/09 14:30	bpk	
2,5-Dibromotoluene (PID)	9.77	1	9.97	98 %	70-130	9L24015	MAVPH	12/27/09 14:30	bpk	



www.encolabs.com

Description: TT-2077A-B-12

Lab Sample ID: C915321-14

Received: 12/24/09 10:20

Matrix: Solid

Sampled: 12/18/09 13:35

Work Order: C915321

Project: TT-2 Tank Yank

Sampled By: Client

% Solids: 81.2

Volatile 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>
C5-C8 Aliphatics [ECL-0022] ^	0.369	U	mg/kg dry	1	0.369	3.69	9L24015	MAVPH	12/27/09 15:42	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.431	U	mg/kg dry	1	0.431	2.46	9L24015	MAVPH	12/27/09 15:42	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.800	U	mg/kg dry	1	0.800	3.69	9L24015	MAVPH	12/27/09 15:42	bpk	

<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>
2,5-Dibromotoluene (FID)	15.0	1	11.6	130 %	70-130	9L24015	MAVPH	12/27/09 15:42	bpk	
2,5-Dibromotoluene (PID)	13.6	1	11.6	118 %	70-130	9L24015	MAVPH	12/27/09 15:42	bpk	

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



www.encolabs.com

Description: TT-2125-1
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-15
Sampled: 12/17/09 08:10
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 81.5

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte</u> [CAS Number]	<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>
C5-C8 Aliphatics [ECL-0022] ^	0.284	U	mg/kg dry	1	0.284	2.84	9L24015	MAVPH	12/27/09 16:11	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.331	U	mg/kg dry	1	0.331	1.89	9L24015	MAVPH	12/27/09 16:11	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.615	U	mg/kg dry	1	0.615	2.84	9L24015	MAVPH	12/27/09 16:11	bpk	

<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>
2,5-Dibromotoluene (FID)	11.2	1	9.47	118 %	70-130	9L24015	MAVPH	12/27/09 16:11	bpk	
2,5-Dibromotoluene (PID)	11.1	1	9.47	117 %	70-130	9L24015	MAVPH	12/27/09 16:11	bpk	

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



www.encolabs.com

Description: TT-2125-2
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-16
Sampled: 12/17/09 08:30
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 84.1

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.291	U	mg/kg dry	1	0.291	2.91	9L24015	MAVPH	12/27/09 16:41	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.340	U	mg/kg dry	1	0.340	1.94	9L24015	MAVPH	12/27/09 16:41	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.631	U	mg/kg dry	1	0.631	2.91	9L24015	MAVPH	12/27/09 16:41	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	11.8	1	9.71	122 %	70-130	9L24015	MAVPH	12/27/09 16:41	bpk	
2,5-Dibromotoluene (PID)	11.2	1	9.71	115 %	70-130	9L24015	MAVPH	12/27/09 16:41	bpk	

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



www.encolabs.com

Description: TT-2125-3
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-17
Sampled: 12/17/09 08:55
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 85.9

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.251	U	mg/kg dry	1	0.251	2.51	9L24015	MAVPH	12/27/09 17:10	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.293	U	mg/kg dry	1	0.293	1.68	9L24015	MAVPH	12/27/09 17:10	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.544	U	mg/kg dry	1	0.544	2.51	9L24015	MAVPH	12/27/09 17:10	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.58	1	8.38	114 %	70-130	9L24015	MAVPH	12/27/09 17:10	bpk	
2,5-Dibromotoluene (PID)	9.09	1	8.38	109 %	70-130	9L24015	MAVPH	12/27/09 17:10	bpk	



www.encolabs.com

Description: TT-2125-4
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-18
Sampled: 12/17/09 08:45
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 83.5

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.271	U	mg/kg dry	1	0.271	2.71	9L24015	MAVPH	12/27/09 17:40	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.317	U	mg/kg dry	1	0.317	1.81	9L24015	MAVPH	12/27/09 17:40	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.588	U	mg/kg dry	1	0.588	2.71	9L24015	MAVPH	12/27/09 17:40	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.90	1	9.05	109 %	70-130	9L24015	MAVPH	12/27/09 17:40	bpk	
2,5-Dibromotoluene (PID)	9.73	1	9.05	108 %	70-130	9L24015	MAVPH	12/27/09 17:40	bpk	

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



www.encolabs.com

Description: TT-2125-B-7
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-19
Sampled: 12/17/09 10:00
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 84.5

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.306	U	mg/kg dry	1	0.306	3.06	9L24015	MAVPH	12/27/09 18:10	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.683	J	mg/kg dry	1	0.356	2.04	9L24015	MAVPH	12/27/09 18:10	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.662	U	mg/kg dry	1	0.662	3.06	9L24015	MAVPH	12/27/09 18:10	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	10.4	1	10.2	102 %	70-130	9L24015	MAVPH	12/27/09 18:10	bpk	
2,5-Dibromotoluene (PID)	8.48	1	10.2	83 %	70-130	9L24015	MAVPH	12/27/09 18:10	bpk	

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



www.encolabs.com

Description: TT-2117-1
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-20
Sampled: 12/17/09 17:00
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 89.2

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.262	U	mg/kg dry	1	0.262	2.62	9L24015	MAVPH	12/27/09 18:40	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.305	U	mg/kg dry	1	0.305	1.74	9L24015	MAVPH	12/27/09 18:40	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.567	U	mg/kg dry	1	0.567	2.62	9L24015	MAVPH	12/27/09 18:40	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	9.66	1	8.72	111 %	70-130	9L24015	MAVPH	12/27/09 18:40	bpk	
2,5-Dibromotoluene (PID)	9.12	1	8.72	105 %	70-130	9L24015	MAVPH	12/27/09 18:40	bpk	

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



www.encolabs.com

Description: TT-2117-2
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-21
Sampled: 12/17/09 12:20
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 89.3

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.520	J	mg/kg dry	1	0.292	2.92	9L28014	MAVPH	12/28/09 14:46	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.679	J	mg/kg dry	1	0.341	1.95	9L28014	MAVPH	12/28/09 14:46	bpk	
C9-C12 Aliphatics [ECL-0025] ^	1.10	J	mg/kg dry	1	0.633	2.92	9L28014	MAVPH	12/28/09 14:46	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	10.8	1	9.74	111 %	70-130	9L28014	MAVPH	12/28/09 14:46	bpk	
2,5-Dibromotoluene (PID)	11.0	1	9.74	113 %	70-130	9L28014	MAVPH	12/28/09 14:46	bpk	

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



www.encolabs.com

Description: TT-2117-3
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-22
Sampled: 12/17/09 12:45
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 89.9

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.334	U	mg/kg dry	1	0.334	3.34	9L28014	MAVPH	12/28/09 15:15	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.389	U	mg/kg dry	1	0.389	2.22	9L28014	MAVPH	12/28/09 15:15	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.723	U	mg/kg dry	1	0.723	3.34	9L28014	MAVPH	12/28/09 15:15	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	15.3	1	11.6	132 %	70-130	9L28014	MAVPH	12/28/09 15:15	bpk	Q5-03
2,5-Dibromotoluene (PID)	15.2	1	11.6	131 %	70-130	9L28014	MAVPH	12/28/09 15:15	bpk	Q5-03

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



www.encolabs.com

Description: TT-2117-4
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-23
Sampled: 12/17/09 12:30
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 89.6

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	0.335	U	mg/kg dry	1	0.335	3.35	9L28014	MAVPH	12/28/09 16:14	bpk	
C9-C10 Aromatics [ECL-0024] ^	0.395	J	mg/kg dry	1	0.391	2.23	9L28014	MAVPH	12/28/09 16:14	bpk	
C9-C12 Aliphatics [ECL-0025] ^	0.725	U	mg/kg dry	1	0.725	3.35	9L28014	MAVPH	12/28/09 16:14	bpk	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,5-Dibromotoluene (FID)	12.6	1	10.2	123 %	70-130	9L28014	MAVPH	12/28/09 16:14	bpk	
2,5-Dibromotoluene (PID)	11.6	1	10.2	113 %	70-130	9L28014	MAVPH	12/28/09 16:14	bpk	

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



www.encolabs.com

Description: TT-2117-B-8
Matrix: Solid
Project: TT-2 Tank Yank

Lab Sample ID: C915321-24
Sampled: 12/18/09 07:10
Sampled By: Client

Received: 12/24/09 10:20
Work Order: C915321
% Solids: 77.7

Volatile Petroleum Hydrocarbons by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
C5-C8 Aliphatics [ECL-0022] ^	8.01	D	mg/kg dry	2	0.535	5.35	9L28014	MAVPH	12/28/09 15:45	bpk	
C9-C10 Aromatics [ECL-0024] ^	75.1	D	mg/kg dry	2	0.624	3.57	9L28014	MAVPH	12/28/09 15:45	bpk	
C9-C12 Aliphatics [ECL-0025] ^	93.5	D	mg/kg dry	2	1.16	5.35	9L28014	MAVPH	12/28/09 15:45	bpk	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,5-Dibromotoluene (FID)	16.4	2	8.91	184 %	70-130	9L28014	MAVPH	12/28/09 15:45	bpk	QS-06	
2,5-Dibromotoluene (PID)	9.56	2	8.91	107 %	70-130	9L28014	MAVPH	12/28/09 15:45	bpk		

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

QUALITY CONTROL

Volatile Petroleum Hydrocarbons by GC - Quality Control

Batch 9L24015 - EPA 5035

Blank (9L24015-BLK1)

Prepared: 12/24/2009 13:01 Analyzed: 12/24/2009 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	0.255	U	2.55	mg/kg wet							
C9-C10 Aromatics	0.298	U	1.70	mg/kg wet							
C9-C12 Aliphatics	0.553	U	2.55	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	9.04			mg/kg wet	8.50		106	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	9.34			mg/kg wet	8.50		110	70-130			

LCS (9L24015-BS1)

Prepared: 12/24/2009 13:01 Analyzed: 12/28/2009 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	9.75		3.00	mg/kg wet	12.0		81	70-130			
C9-C10 Aromatics	3.97		2.00	mg/kg wet	4.00		99	70-130			
C9-C12 Aliphatics	11.4		3.00	mg/kg wet	12.0		95	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	9.40			mg/kg wet	10.0		94	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	10.8			mg/kg wet	10.0		108	70-130			

LCS Dup (9L24015-BSD1)

Prepared: 12/24/2009 13:01 Analyzed: 12/28/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	9.94		3.00	mg/kg wet	12.0		83	70-130	2	25	
C9-C10 Aromatics	4.02		2.00	mg/kg wet	4.00		100	70-130	1	25	
C9-C12 Aliphatics	11.9		3.00	mg/kg wet	12.0		99	70-130	4	25	
Surrogate: 2,5-Dibromotoluene (FID)	8.13			mg/kg wet	10.0		81	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	9.54			mg/kg wet	10.0		95	70-130			

Batch 9L28014 - EPA 5035

Blank (9L28014-BLK1)

Prepared: 12/28/2009 13:18 Analyzed: 12/28/2009 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	0.300	U	3.00	mg/kg wet							
C9-C10 Aromatics	0.350	U	2.00	mg/kg wet							
C9-C12 Aliphatics	0.650	U	3.00	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	9.71			mg/kg wet	9.58		101	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	10.2			mg/kg wet	9.58		106	70-130			

LCS (9L28014-BS1)

Prepared: 12/28/2009 13:18 Analyzed: 12/28/2009 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	9.22		3.00	mg/kg wet	12.0		77	70-130			
C9-C10 Aromatics	4.22		2.00	mg/kg wet	4.00		106	70-130			
C9-C12 Aliphatics	9.30		3.00	mg/kg wet	12.0		78	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	7.11			mg/kg wet	10.0		71	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	9.08			mg/kg wet	10.0		91	70-130			

LCS Dup (9L28014-BSD1)

Prepared: 12/28/2009 13:18 Analyzed: 12/28/2009 18:47



www.encolabs.com

QUALITY CONTROL

Volatile Petroleum Hydrocarbons by GC - Quality Control

Batch 9L28014 - EPA 5035

LCS Dup (9L28014-BSD1) Continued

Prepared: 12/28/2009 13:18 Analyzed: 12/28/2009 18:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
C5-C8 Aliphatics	9.63		3.00	mg/kg wet	12.0		80	70-130	4	25	
C9-C10 Aromatics	4.64		2.00	mg/kg wet	4.00		116	70-130	9	25	
C9-C12 Aliphatics	9.82		3.00	mg/kg wet	12.0		82	70-130	5	25	
Surrogate: 2,5-Dibromotoluene (FID)	7.13			mg/kg wet	10.0		71	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	9.75			mg/kg wet	10.0		98	70-130			

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.
QS-03	Surrogate recovery outside acceptance limits
QS-06	Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.



www.encolabs.com

Chain of Custody

C915321

Pace Analytical
www.paceanalytical.com

Workorder: 9259999

Workorder Name: TT-2 Tank Vank

Results Requested 12/29/2009

Ashley Nifong
Pace Analytical Charlotte
9800 Kinsey Ave Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: ashley.nifong@paceanalytical.com

P.O. C-4502117
FAC - (any)

Report / Invoice To		Subcontract To		Requested Analysis										LAB USE ONLY	
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers										
1	TT-2506-1	12/15/2009 11:10	9259999001	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	TT-2506-2	12/15/2009 10:30	9259999002	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	TT-2506-3	12/15/2009 11:02	9259999003	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	TT-2506-4	12/15/2009 10:25	9259999004	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	TT-2506-B-10.8	12/15/2009 15:43	9259999005	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	TT-2506-1	12/16/2009 08:45	9259999006	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	TT-2506-2	12/16/2009 11:47	9259999007	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	TT-2506-3	12/16/2009 07:10	9259999008	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	TT-2506-4	12/16/2009 07:30	9259999009	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	TT-2506-B-6	12/16/2009 07:46	9259999010	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	TT-2077A-1.9	12/18/2009 10:32	9259999011	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	TT-2077A-2.9	12/18/2009 13:08	9259999012	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	TT-2077A-3.9	12/18/2009 13:28	9259999013	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	TT-2077A-B-12	12/18/2009 13:36	9259999014	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	TT-2125-1	12/17/2009 08:10	9259999015	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	TT-2125-2	12/17/2009 08:30	9259999016	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17	TT-2125-3	12/17/2009 09:55	9259999017	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	TT-2125-4	12/17/2009 10:45	9259999018	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19	TT-2125-B-7	12/17/2009 11:00	9259999019	Solid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Wednesday, December 23, 2009 1:55 PM

1 MAT ALL C-002109 00 248 JCL 12/29/09

Page 1 of 1



www.encolabs.com

Chain of Custody

C915321

Face Analytical
www.faceanalytical.com

Workorder: 9259999

Workorder Name: TT-2 Tank Yank

Results Requested 12/29/2009

Report/Invoice To

Subcontract To

Requested Analysis

Ashley Milroy
Pure Analytical Charlotte
9800 Kinross Ave, Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: ashley.milroy@pacelabs.com

ENCO

P.O. #486847

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY
20	TT-2117-1	12/18/2009 17:00	9259999020	Solid	3	
21	TT-2117-2	12/18/2009 17:30	9259999021	Solid	3	
22	TT-2117-3	12/18/2009 17:45	9259999022	Solid	3	
23	TT-2117-4	12/18/2009 17:30	9259999023	Solid	3	
24	TT-2117-5	12/18/2009 07:10	9259999024	Solid	3	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Mike	12/18/2009	Mike	12/18/2009	
2					
3					
4					
5					

Wednesday, December 23, 2009 2:04 PM

FAT-ALL C-00249 00 2476402009

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: MEC Corp	Report To: Rob Finley	Attention: Julie Smith	Company Name: Mec Corp		Company Name: Mec Corp
Address: Mecherry PT, NC	Copy To: Mike Rohrer	Address: Jacksonville, NC		Address: Jacksonville, NC	
Email To: _____	Purchase Order No.: _____	Project Name: TT-2 Tank Yard		Project Name: TT-2 Tank Yard	
Phone: 252 447-1700	Fax: 252-447-2012	Project Number: Rush		Project Number: Rush	
Requested Due Date/TAT: _____		Requested Analysis Filtered (Y/N): _____		Requested Analysis Filtered (Y/N): _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____		Regulatory Agency: _____	
NPDES: _____		NPDES: _____		NPDES: _____	
RCRA: _____		RCRA: _____		RCRA: _____	
Other: _____		Other: _____		Other: _____	
Site Location: _____		Site Location: _____		Site Location: _____	
State: _____		State: _____		State: _____	
City: _____		City: _____		City: _____	
Zip: _____		Zip: _____		Zip: _____	
Country: _____		Country: _____		Country: _____	
Regulatory Agency: _____		Regulatory Agency: _____			

Samples Intact
(Y/N)

***Important Note:** By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoice not paid within 30 days.



Sample Condition Upon Receipt

Client Name: MEC

Project # 9259999

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 5.5

Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: WMM - 12/21/09

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:		
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: Kitt

Date: 12/22/09



Jeff Becken
Richard Catlin & Associates
P.O. Box 10280
Wilmington, NC 28404-0280

Report Number: G128-2490

Client Project: TT-Sites

Dear Jeff Becken,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America, Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager Jan 26, 2010
Project Manager Date
Barbara Hager

SGS North America, Inc.
List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are $10\% < \%R < LCL$; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

Results for Volatiles
by GC 602

Client Sample ID: TT2506-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-1A
Lab Project ID: G128-2490

Analyzed By: DVO
Date Collected: 1/18/10 11:45
Date Received: 1/19/10
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.177	1	1/21/10	
Diisopropyl ether (DIPE)	BQL	1.00	0.253	1	1/21/10	
Ethylbenzene	1.33	1.00	0.19	1	1/21/10	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.306	1	1/21/10	
Toluene	BQL	1.00	0.313	1	1/21/10	
m/p-Xylene	5.97	2.00	0.481	1	1/21/10	
o-Xylene	2.34	2.00	0.405	1	1/21/10	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

Comments:

All values corrected for dilution.
BQL = Below quantitation limit.

Results for Volatiles

by GC 602

Client Sample ID: TT2125-TW01

Client Project ID: TT-Sites

Lab Sample ID: G128-2490-2A

Lab Project ID: G128-2490

Analyzed By: DVO

Date Collected: 1/18/10 15:00

Date Received: 1/19/10

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.177	1	1/21/10	
Diisopropyl ether (DIPE)	BQL	1.00	0.253	1	1/21/10	
Ethylbenzene	BQL	1.00	0.19	1	1/21/10	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.306	1	1/21/10	
Toluene	BQL	1.00	0.313	1	1/21/10	
m/p-Xylene	BQL	2.00	0.481	1	1/21/10	
o-Xylene	BQL	2.00	0.405	1	1/21/10	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

Results for Volatiles

by GC 602

Client Sample ID: TT2117-TW01

Client Project ID: TT-Sites

Lab Sample ID: G128-2490-3A

Lab Project ID: G128-2490

Analyzed By: DVO

Date Collected: 1/18/2010 13:00

Date Received: 1/19/2010

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	4.85	1.00	0.177	1	1/22/2010	
Diisopropyl ether (DIPE)	BQL	1.00	0.253	1	1/22/2010	
Ethylbenzene	23.5	5.00	0.95	5	1/21/2010	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.306	1	1/22/2010	
Toluene	1.31	1.00	0.313	1	1/22/2010	
m/p-Xylene	82.6	10.0	2.41	5	1/21/2010	
o-Xylene	55.4	10.0	2.03	5	1/21/2010	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.7	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA

Results for Volatiles

by GC 602

Client Sample ID: TT2103-TW01

Client Project ID: TT-Sites

Lab Sample ID: G128-2490-4A

Lab Project ID: G128-2490

Analyzed By: DVO

Date Collected: 1/18/10 14:00

Date Received: 1/19/10

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.177	1	1/21/10	
Diisopropyl ether (DIPE)	BQL	1.00	0.253	1	1/21/10	
Ethylbenzene	BQL	1.00	0.19	1	1/21/10	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.306	1	1/21/10	
Toluene	BQL	1.00	0.313	1	1/21/10	
m/p-Xylene	BQL	2.00	0.481	1	1/21/10	
o-Xylene	BQL	2.00	0.405	1	1/21/10	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Results for Volatiles
by GC 602

Client Sample ID: TT2953-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-5A
Lab Project ID: G128-2490

Analyzed By: DVO
Date Collected: 1/18/10 15:30
Date Received: 1/19/10
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	0.811	1.00	0.177	1	1/21/10	J
Diisopropyl ether (DIPE)	BQL	1.00	0.253	1	1/21/10	
Ethylbenzene	8.50	1.00	0.19	1	1/21/10	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.306	1	1/21/10	
Toluene	BQL	1.00	0.313	1	1/21/10	
m/p-Xylene	19.0	2.00	0.481	1	1/21/10	
o-Xylene	2.94	2.00	0.405	1	1/21/10	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

Comments:

All values corrected for dilution.
BQL = Below quantitation limit.

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2506-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-1J
 Lab Project ID: G128-2490

Analyzed By: DCS
 Date Collected: 1/18/2010 11:45
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Matrix: Water

Initial/Final Amt: 883 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.13	5.66	0.844	1	1/21/2010	J
Acenaphthylene	BQL	5.66	0.844	1	1/21/2010	
Anthracene	BQL	5.66	0.991	1	1/21/2010	
Benzo[a]anthracene	BQL	5.66	0.770	1	1/21/2010	
Benzo[a]pyrene	BQL	5.66	0.719	1	1/21/2010	
Benzo[b]fluoranthene	BQL	5.66	0.810	1	1/21/2010	
Benzo[g,h,i]perylene	BQL	5.66	0.696	1	1/21/2010	
Benzo[k]fluoranthene	BQL	5.66	0.623	1	1/21/2010	
Bis(2-chloroethoxy)methane	BQL	5.66	1.17	1	1/21/2010	
Bis(2-chloroethyl)ether	BQL	5.66	1.18	1	1/21/2010	
Bis(2-chloroisopropyl)ether	BQL	5.66	1.10	1	1/21/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.66	0.464	1	1/21/2010	
4-bromophenyl phenyl ether	BQL	5.66	0.883	1	1/21/2010	
Butylbenzylphthalate	BQL	5.66	0.504	1	1/21/2010	
2-Chloronaphthalene	BQL	5.66	0.980	1	1/21/2010	
2-Chlorophenol	BQL	5.66	1.33	1	1/21/2010	
4-Chloro-3-methylphenol	BQL	5.66	0.900	1	1/21/2010	
4-Chlorophenyl phenyl ether	BQL	5.66	3.69	1	1/21/2010	
Chrysene	BQL	5.66	0.629	1	1/21/2010	
Dibenzo[a,h]anthracene	BQL	5.66	0.498	1	1/21/2010	
Di-n-Butylphthalate	BQL	5.66	0.934	1	1/21/2010	
3,3'-Dichlorobenzidine	BQL	11.3	1.38	1	1/21/2010	
2,4-Dichlorophenol	BQL	5.66	1.27	1	1/21/2010	
Diethylphthalate	BQL	5.66	0.838	1	1/21/2010	
Dimethylphthalate	BQL	5.66	0.629	1	1/21/2010	
2,4-Dimethylphenol	BQL	5.66	1.83	1	1/21/2010	
Di-n-octylphthalate	BQL	5.66	0.657	1	1/21/2010	
4,6-Dinitro-2-methylphenol	BQL	28.3	0.623	1	1/21/2010	
2,4-Dinitrophenol	BQL	28.3	0.725	1	1/21/2010	
2,4-Dinitrotoluene	BQL	5.66	0.606	1	1/21/2010	
2,6-Dinitrotoluene	BQL	5.66	0.736	1	1/21/2010	
Diphenylamine *	BQL	5.66	0.646	1	1/21/2010	
Fluoranthene	BQL	5.66	0.798	1	1/21/2010	
Fluorene	1.64	5.66	0.821	1	1/21/2010	J
Hexachlorobenzene	BQL	5.66	0.572	1	1/21/2010	
Hexachlorobutadiene	BQL	5.66	0.861	1	1/21/2010	
Hexachlorocyclopentadiene	BQL	11.3	11.3	1	1/21/2010	
Hexachloroethane	BQL	5.66	0.844	1	1/21/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.66	2.59	1	1/21/2010	
Isophorone	BQL	5.66	1.00	1	1/21/2010	
Naphthalene	10.3	5.66	1.03	1	1/21/2010	
Nitrobenzene	BQL	5.66	1.19	1	1/21/2010	
2-Nitrophenol	BQL	5.66	1.39	1	1/21/2010	
4-Nitrophenol	BQL	28.3	1.22	1	1/21/2010	
N-Nitrosodi-n-propylamine	BQL	5.66	1.70	1	1/21/2010	
Pentachlorophenol	BQL	28.3	1.60	1	1/21/2010	
Phenanthrene	1.08	5.66	0.504	1	1/21/2010	J

Results for Semivolatiles
by GCMS 625

Client Sample ID: TT2506-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-1J
Lab Project ID: G128-2490

Analyzed By: DCS
Date Collected: 1/18/2010 11:45
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Matrix: Water

Initial/Final Amt: 883 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	5.66	1.20	1	1/21/2010	
Pyrene	BQL	5.66	2.34	1	1/21/2010	
1,2,4-Trichlorobenzene	BQL	5.66	0.815	1	1/21/2010	
2,4,6-Trichlorophenol	BQL	5.66	1.05	1	1/21/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.5	95		
2-Fluorophenol		10	9.1	91		
Nitrobenzene-d5		10	9.7	97		
Phenol-d6		10	9.2	92		
2,4,6-Tribromophenol		10	10.6	106		
4-Terphenyl-d14		10	10.2	102		

Comments:**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: TT2506-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-1J
Lab Project ID: G128-2490
Sample Wt/Vol: 883 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/18/2010 11:45
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Date Analyzed: 1/21/2010
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result ug/L
1	Naphthalene, 2,3-dimethyl-	6.72	581-40-8	98	19.7
2	Naphthalene, 1,5-dimethyl-	6.63	571-61-9	98	16.7
3	Benzene, 1,2,4-trimethyl-	4.05	95-63-6	95	16
4	Alkane, Unknown	4.94			14
5	Benzene, 1-methyl-3-(1-methylethyl)-	4.27	535-77-3	94	7
6	Alkane, Unknown	5.04			6.3
7	Benzene, 1-methyl-4-propyl-	4.34	1074-55-1	91	5.96
8	Alkane, Unknown	4.42			2.47

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: MA

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2125-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-2J
 Lab Project ID: G128-2490

Analyzed By: DCS
 Date Collected: 1/18/2010 15:00
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Matrix: Water

Initial/Final Amt: 889 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.62	0.838	1	1/21/2010	
Acenaphthylene	BQL	5.62	0.838	1	1/21/2010	
Anthracene	BQL	5.62	0.984	1	1/21/2010	
Benzo[a]anthracene	BQL	5.62	0.765	1	1/21/2010	
Benzo[a]pyrene	BQL	5.62	0.714	1	1/21/2010	
Benzo[b]fluoranthene	BQL	5.62	0.804	1	1/21/2010	
Benzo[g,h,i]perylene	BQL	5.62	0.692	1	1/21/2010	
Benzo[k]fluoranthene	BQL	5.62	0.619	1	1/21/2010	
Bis(2-chloroethoxy)methane	BQL	5.62	1.16	1	1/21/2010	
Bis(2-chloroethyl)ether	BQL	5.62	1.17	1	1/21/2010	
Bis(2-chloroisopropyl)ether	BQL	5.62	1.10	1	1/21/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.62	0.461	1	1/21/2010	
4-bromophenyl phenyl ether	BQL	5.62	0.877	1	1/21/2010	
Butylbenzylphthalate	BQL	5.62	0.501	1	1/21/2010	
2-Chloronaphthalene	BQL	5.62	0.973	1	1/21/2010	
2-Chlorophenol	BQL	5.62	1.32	1	1/21/2010	
4-Chloro-3-methylphenol	BQL	5.62	0.894	1	1/21/2010	
4-Chlorophenyl phenyl ether	BQL	5.62	3.66	1	1/21/2010	
Chrysene	BQL	5.62	0.624	1	1/21/2010	
Dibenzo[a,h]anthracene	BQL	5.62	0.495	1	1/21/2010	
Di-n-Butylphthalate	BQL	5.62	0.928	1	1/21/2010	
3,3'-Dichlorobenzidine	BQL	11.2	1.37	1	1/21/2010	
2,4-Dichlorophenol	BQL	5.62	1.26	1	1/21/2010	
Diethylphthalate	BQL	5.62	0.832	1	1/21/2010	
Dimethylphthalate	BQL	5.62	0.624	1	1/21/2010	
2,4-Dimethylphenol	BQL	5.62	1.82	1	1/21/2010	
Di-n-octylphthalate	BQL	5.62	0.652	1	1/21/2010	
4,6-Dinitro-2-methylphenol	BQL	28.1	0.619	1	1/21/2010	
2,4-Dinitrophenol	BQL	28.1	0.720	1	1/21/2010	
2,4-Dinitrotoluene	BQL	5.62	0.602	1	1/21/2010	
2,6-Dinitrotoluene	BQL	5.62	0.731	1	1/21/2010	
Diphenylamine *	BQL	5.62	0.641	1	1/21/2010	
Fluoranthene	BQL	5.62	0.793	1	1/21/2010	
Fluorene	BQL	5.62	0.816	1	1/21/2010	
Hexachlorobenzene	BQL	5.62	0.568	1	1/21/2010	
Hexachlorobutadiene	BQL	5.62	0.855	1	1/21/2010	
Hexachlorocyclopentadiene	BQL	11.2	11.2	1	1/21/2010	
Hexachloroethane	BQL	5.62	0.838	1	1/21/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.62	2.57	1	1/21/2010	
Isophorone	BQL	5.62	0.996	1	1/21/2010	
Naphthalene	BQL	5.62	1.02	1	1/21/2010	
Nitrobenzene	BQL	5.62	1.18	1	1/21/2010	
2-Nitrophenol	BQL	5.62	1.38	1	1/21/2010	
4-Nitrophenol	BQL	28.1	1.21	1	1/21/2010	
N-Nitrosodi-n-propylamine	BQL	5.62	1.69	1	1/21/2010	
Pentachlorophenol	BQL	28.1	1.59	1	1/21/2010	
Phenanthrene	BQL	5.62	0.501	1	1/21/2010	

SGS North America, Inc.

Results for Semivolatiles
by GCMS 625

Client Sample ID: TT2125-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-2J
Lab Project ID: G128-2490

Analyzed By: DCS
Date Collected: 1/18/2010 15:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Matrix: Water

Initial/Final Amt: 889 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	5.62	1.19	1	1/21/2010	
Pyrene	BQL	5.62	2.32	1	1/21/2010	
1,2,4-Trichlorobenzene	BQL	5.62	0.810	1	1/21/2010	
2,4,6-Trichlorophenol	BQL	5.62	1.04	1	1/21/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.1	91		
2-Fluorophenol		10	8	80		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	8.6	86		
2,4,6-Tribromophenol		10	9.5	95		
4-Terphenyl-d14		10	10.5	105		

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: TT2125-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-2J
Lab Project ID: G128-2490
Sample Wt/Vol: 889 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/18/2010 15:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Date Analyzed: 1/21/2010
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result ug/L
1	Dieldrin	10.30	60-57-1	99	4.74
2	Alkane, Unknown	4.42			2.78
3	Alkane, Unknown	4.42			2.74

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2117-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-3J
 Lab Project ID: G128-2490

Analyzed By: DCS
 Date Collected: 1/18/2010 13:00
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Matrix: Water

Initial/Final Amt: 886 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.58	5.64	0.841	1	1/21/2010	J
Acenaphthylene	BQL	5.64	0.841	1	1/21/2010	
Anthracene	BQL	5.64	0.988	1	1/21/2010	
Benzo[a]anthracene	BQL	5.64	0.767	1	1/21/2010	
Benzo[a]pyrene	BQL	5.64	0.717	1	1/21/2010	
Benzo[b]fluoranthene	BQL	5.64	0.807	1	1/21/2010	
Benzo[g,h,i]perylene	BQL	5.64	0.694	1	1/21/2010	
Benzo[k]fluoranthene	BQL	5.64	0.621	1	1/21/2010	
Bis(2-chloroethoxy)methane	BQL	5.64	1.16	1	1/21/2010	
Bis(2-chloroethyl)ether	BQL	5.64	1.17	1	1/21/2010	
Bis(2-chloroisopropyl)ether	BQL	5.64	1.10	1	1/21/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.64	0.463	1	1/21/2010	
4-bromophenyl phenyl ether	BQL	5.64	0.880	1	1/21/2010	
Butylbenzylphthalate	BQL	5.64	0.502	1	1/21/2010	
2-Chloronaphthalene	BQL	5.64	0.976	1	1/21/2010	
2-Chlorophenol	BQL	5.64	1.32	1	1/21/2010	
4-Chloro-3-methylphenol	BQL	5.64	0.897	1	1/21/2010	
4-Chlorophenyl phenyl ether	BQL	5.64	3.67	1	1/21/2010	
Chrysene	BQL	5.64	0.626	1	1/21/2010	
Dibenzo[a,h]anthracene	BQL	5.64	0.497	1	1/21/2010	
Di-n-Butylphthalate	BQL	5.64	0.931	1	1/21/2010	
3,3'-Dichlorobenzidine	BQL	11.3	1.38	1	1/21/2010	
2,4-Dichlorophenol	BQL	5.64	1.26	1	1/21/2010	
Diethylphthalate	BQL	5.64	0.835	1	1/21/2010	
Dimethylphthalate	BQL	5.64	0.626	1	1/21/2010	
2,4-Dimethylphenol	BQL	5.64	1.83	1	1/21/2010	
Di-n-octylphthalate	BQL	5.64	0.655	1	1/21/2010	
4,6-Dinitro-2-methylphenol	BQL	28.2	0.621	1	1/21/2010	
2,4-Dinitrophenol	BQL	28.2	0.722	1	1/21/2010	
2,4-Dinitrotoluene	BQL	5.64	0.604	1	1/21/2010	
2,6-Dinitrotoluene	BQL	5.64	0.734	1	1/21/2010	
Diphenylamine *	BQL	5.64	0.643	1	1/21/2010	
Fluoranthene	BQL	5.64	0.796	1	1/21/2010	
Fluorene	2.48	5.64	0.818	1	1/21/2010	J
Hexachlorobenzene	BQL	5.64	0.570	1	1/21/2010	
Hexachlorobutadiene	BQL	5.64	0.858	1	1/21/2010	
Hexachlorocyclopentadiene	BQL	11.3	11.3	1	1/21/2010	
Hexachloroethane	BQL	5.64	0.841	1	1/21/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.64	2.58	1	1/21/2010	
Isophorone	BQL	5.64	0.999	1	1/21/2010	
Naphthalene	55.6	5.64	1.03	1	1/21/2010	
Nitrobenzene	BQL	5.64	1.19	1	1/21/2010	
2-Nitrophenol	BQL	5.64	1.39	1	1/21/2010	
4-Nitrophenol	BQL	28.2	1.22	1	1/21/2010	
N-Nitrosodi-n-propylamine	BQL	5.64	1.69	1	1/21/2010	
Pentachlorophenol	BQL	28.2	1.60	1	1/21/2010	
Phenanthrene	1.69	5.64	0.502	1	1/21/2010	J

Results for Semivolatiles
by GCMS 625

Client Sample ID: TT2117-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-3J
Lab Project ID: G128-2490

Analyzed By: DCS
Date Collected: 1/18/2010 13:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Matrix: Water

Initial/Final Amt: 886 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	5.64	1.20	1	1/21/2010	
Pyrene	BQL	5.64	2.33	1	1/21/2010	
1,2,4-Trichlorobenzene	BQL	5.64	0.813	1	1/21/2010	
2,4,6-Trichlorophenol	BQL	5.64	1.04	1	1/21/2010	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	9.2	92
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	10	11	110
4-Terphenyl-d14	10	10.8	108

Comments:

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: JD

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: TT2117-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-3J
Lab Project ID: G128-2490
Sample Wt/Vol: 886 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/18/2010 13:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Date Analyzed: 1/21/2010
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result ug/L
1	Benzene, 1,2,4-trimethyl-	4.05	95-63-6	95	52.8
2	Tetramethylbenzene, Isomer of	4.94			21.7
3	Benzene, 1,2-diethyl-	4.27	135-01-3	91	20.9
4	Naphthalene, 2,6-dimethyl-	6.66	581-42-0	97	20
5	Naphthalene, 2,7-dimethyl-	6.58	582-16-1	97	18.1
6	Benzene, 2-ethyl-1,4-dimethyl-	4.41	1758-88-9	94	14.4
7	Alkane, Unknown	4.16			14.3
8	Alkane, Unknown	4.42			5.75
9	Naphthalene, 1-methyl-	6.02	90-12-0	91	5.55

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: MA

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2103-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-4J
 Lab Project ID: G128-2490

Analyzed By: DCS
 Date Collected: 1/18/2010 14:00
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Matrix: Water

Initial/Final Amt: 882 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.67	0.845	1	1/21/2010	
Acenaphthylene	BQL	5.67	0.845	1	1/21/2010	
Anthracene	BQL	5.67	0.992	1	1/21/2010	
Benzo[a]anthracene	BQL	5.67	0.771	1	1/21/2010	
Benzo[a]pyrene	BQL	5.67	0.720	1	1/21/2010	
Benzo[b]fluoranthene	BQL	5.67	0.811	1	1/21/2010	
Benzo[g,h,i]perylene	BQL	5.67	0.697	1	1/21/2010	
Benzo[k]fluoranthene	BQL	5.67	0.624	1	1/21/2010	
Bis(2-chloroethoxy)methane	BQL	5.67	1.17	1	1/21/2010	
Bis(2-chloroethyl)ether	BQL	5.67	1.18	1	1/21/2010	
Bis(2-chloroisopropyl)ether	BQL	5.67	1.11	1	1/21/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.67	0.465	1	1/21/2010	
4-bromophenyl phenyl ether	BQL	5.67	0.884	1	1/21/2010	
Butylbenzylphthalate	BQL	5.67	0.505	1	1/21/2010	
2-Chloronaphthalene	BQL	5.67	0.981	1	1/21/2010	
2-Chlorophenol	BQL	5.67	1.33	1	1/21/2010	
4-Chloro-3-methylphenol	BQL	5.67	0.901	1	1/21/2010	
4-Chlorophenyl phenyl ether	BQL	5.67	3.69	1	1/21/2010	
Chrysene	BQL	5.67	0.629	1	1/21/2010	
Dibenzo[a,h]anthracene	BQL	5.67	0.499	1	1/21/2010	
Di-n-Butylphthalate	BQL	5.67	0.935	1	1/21/2010	
3,3'-Dichlorobenzidine	BQL	11.3	1.38	1	1/21/2010	
2,4-Dichlorophenol	BQL	5.67	1.27	1	1/21/2010	
Diethylphthalate	BQL	5.67	0.839	1	1/21/2010	
Dimethylphthalate	BQL	5.67	0.629	1	1/21/2010	
2,4-Dimethylphenol	BQL	5.67	1.84	1	1/21/2010	
Di-n-octylphthalate	BQL	5.67	0.658	1	1/21/2010	
4,6-Dinitro-2-methylphenol	BQL	28.3	0.624	1	1/21/2010	
2,4-Dinitrophenol	BQL	28.3	0.726	1	1/21/2010	
2,4-Dinitrotoluene	BQL	5.67	0.607	1	1/21/2010	
2,6-Dinitrotoluene	BQL	5.67	0.737	1	1/21/2010	
Diphenylamine *	BQL	5.67	0.646	1	1/21/2010	
Fluoranthene	BQL	5.67	0.799	1	1/21/2010	
Fluorene	BQL	5.67	0.822	1	1/21/2010	
Hexachlorobenzene	BQL	5.67	0.573	1	1/21/2010	
Hexachlorobutadiene	BQL	5.67	0.862	1	1/21/2010	
Hexachlorocyclopentadiene	BQL	11.3	11.3	1	1/21/2010	
Hexachloroethane	BQL	5.67	0.845	1	1/21/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.67	2.59	1	1/21/2010	
Isophorone	BQL	5.67	1.00	1	1/21/2010	
Naphthalene	BQL	5.67	1.03	1	1/21/2010	
Nitrobenzene	BQL	5.67	1.19	1	1/21/2010	
2-Nitrophenol	BQL	5.67	1.39	1	1/21/2010	
4-Nitrophenol	BQL	28.3	1.22	1	1/21/2010	
N-Nitrosodi-n-propylamine	BQL	5.67	1.70	1	1/21/2010	
Pentachlorophenol	BQL	28.3	1.60	1	1/21/2010	
Phenanthrene	BQL	5.67	0.505	1	1/21/2010	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2103-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-4J
Lab Project ID: G128-2490

Analyzed By: DCS
Date Collected: 1/18/2010 14:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Matrix: Water

Initial/Final Amt: 882 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	5.67	1.20	1	1/21/2010	
Pyrene	BQL	5.67	2.34	1	1/21/2010	
1,2,4-Trichlorobenzene	BQL	5.67	0.816	1	1/21/2010	
2,4,6-Trichlorophenol	BQL	5.67	1.05	1	1/21/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	7.7	77		
Nitrobenzene-d5		10	8.7	87		
Phenol-d6		10	8.2	82		
2,4,6-Tribromophenol		10	9.4	94		
4-Terphenyl-d14		10	10.2	102		

Comments:**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: DD

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: TT2103-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-4J
Lab Project ID: G128-2490
Sample Wt/Vol: 882 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/18/2010 14:00
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Date Analyzed: 1/21/2010
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result ug/L
1	Alkane, Unknown	4.42			4.21

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: CDX

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: TT2953-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-5J
 Lab Project ID: G128-2490

Analyzed By: DCS
 Date Collected: 1/18/2010 15:30
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Matrix: Water

Initial/Final Amt: 872 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.20	5.73	0.854	1	1/21/2010	J
Acenaphthylene	BQL	5.73	0.854	1	1/21/2010	
Anthracene	BQL	5.73	1.00	1	1/21/2010	
Benzo[a]anthracene	BQL	5.73	0.780	1	1/21/2010	
Benzo[a]pyrene	BQL	5.73	0.728	1	1/21/2010	
Benzo[b]fluoranthene	BQL	5.73	0.820	1	1/21/2010	
Benzo[g,h,i]perylene	BQL	5.73	0.705	1	1/21/2010	
Benzo[k]fluoranthene	BQL	5.73	0.631	1	1/21/2010	
Bis(2-chloroethoxy)methane	BQL	5.73	1.18	1	1/21/2010	
Bis(2-chloroethyl)ether	BQL	5.73	1.19	1	1/21/2010	
Bis(2-chloroisopropyl)ether	BQL	5.73	1.12	1	1/21/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.73	0.470	1	1/21/2010	
4-bromophenyl phenyl ether	BQL	5.73	0.894	1	1/21/2010	
Butylbenzylphthalate	BQL	5.73	0.510	1	1/21/2010	
2-Chloronaphthalene	BQL	5.73	0.992	1	1/21/2010	
2-Chlorophenol	BQL	5.73	1.34	1	1/21/2010	
4-Chloro-3-methylphenol	BQL	5.73	0.912	1	1/21/2010	
4-Chlorophenyl phenyl ether	BQL	5.73	3.73	1	1/21/2010	
Chrysene	BQL	5.73	0.636	1	1/21/2010	
Dibenzo[a,h]anthracene	BQL	5.73	0.505	1	1/21/2010	
Di-n-Butylphthalate	BQL	5.73	0.946	1	1/21/2010	
3,3'-Dichlorobenzidine	BQL	11.5	1.40	1	1/21/2010	
2,4-Dichlorophenol	BQL	5.73	1.28	1	1/21/2010	
Diethylphthalate	BQL	5.73	0.849	1	1/21/2010	
Dimethylphthalate	BQL	5.73	0.636	1	1/21/2010	
2,4-Dimethylphenol	BQL	5.73	1.86	1	1/21/2010	
Di-n-octylphthalate	BQL	5.73	0.665	1	1/21/2010	
4,6-Dinitro-2-methylphenol	BQL	28.7	0.631	1	1/21/2010	
2,4-Dinitrophenol	BQL	28.7	0.734	1	1/21/2010	
2,4-Dinitrotoluene	BQL	5.73	0.614	1	1/21/2010	
2,6-Dinitrotoluene	BQL	5.73	0.745	1	1/21/2010	
Diphenylamine *	BQL	5.73	0.654	1	1/21/2010	
Fluoranthene	BQL	5.73	0.808	1	1/21/2010	
Fluorene	2.58	5.73	0.831	1	1/21/2010	J
Hexachlorobenzene	BQL	5.73	0.579	1	1/21/2010	
Hexachlorobutadiene	BQL	5.73	0.872	1	1/21/2010	
Hexachlorocyclopentadiene	BQL	11.5	11.5	1	1/21/2010	
Hexachloroethane	BQL	5.73	0.854	1	1/21/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.73	2.62	1	1/21/2010	
Isophorone	BQL	5.73	1.01	1	1/21/2010	
Naphthalene	19.7	5.73	1.04	1	1/21/2010	
Nitrobenzene	BQL	5.73	1.20	1	1/21/2010	
2-Nitrophenol	BQL	5.73	1.41	1	1/21/2010	
4-Nitrophenol	BQL	28.7	1.24	1	1/21/2010	
N-Nitrosodi-n-propylamine	BQL	5.73	1.72	1	1/21/2010	
Pentachlorophenol	BQL	28.7	1.62	1	1/21/2010	
Phenanthrene	1.61	5.73	0.510	1	1/21/2010	J

Results for Semivolatiles
by GCMS 625

Client Sample ID: TT2953-TW01
Client Project ID: TT-Sites
Lab Sample ID: G128-2490-5J
Lab Project ID: G128-2490

Analyzed By: DCS
Date Collected: 1/18/2010 15:30
Date Received: 1/19/2010
Date Extracted: 1/19/2010
Matrix: Water

Initial/Final Amt: 872 mL / 5 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	5.73	1.22	1	1/21/2010	
Pyrene	BQL	5.73	2.37	1	1/21/2010	
1,2,4-Trichlorobenzene	BQL	5.73	0.826	1	1/21/2010	
2,4,6-Trichlorophenol	BQL	5.73	1.06	1	1/21/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.5	85		
2-Fluorophenol		10	7.7	77		
Nitrobenzene-d5		10	8.4	84		
Phenol-d6		10	8.3	83		
2,4,6-Tribromophenol		10	10	100		
4-Terphenyl-d14		10	10.7	107		

Comments:**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds by GCMS

Client Sample ID: TT2953-TW01
 Client Project ID: TT-Sites
 Lab Sample ID: G128-2490-5J
 Lab Project ID: G128-2490
 Sample Wt/Vol: 872 ML
 Dilution: 1

Analyzed By: DES
 Date Collected: 1/18/2010 15:30
 Date Received: 1/19/2010
 Date Extracted: 1/19/2010
 Date Analyzed: 1/21/2010
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result ug/L
1	Benzene, 1,2,4-trimethyl-	4.05	95-63-6	95	18.2
2	Naphthalene, 2,6-dimethyl-	6.66	581-42-0	97	16.1
3	Benzene, 1-ethyl-3,5-dimethyl-	4.27	934-74-7	94	13.9
4	Propenylbenzene, Isomer of	4.34			13.4
5	Benzene, 2-ethyl-1,4-dimethyl-	4.41	1758-88-9	95	12.9
6	Naphthalene, 2,7-dimethyl-	6.58	582-16-1	97	11.6
7	Naphthalene, 1,5-dimethyl-	6.68	571-61-9	98	10.8
8	Aromatic, Unknown	5.04			10.2
9	Naphthalene, 2-methyl-	5.97	91-57-6	94	6.46
10	Alkane, Unknown	4.42			

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2506-TW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	01/18/10 11:45
Date Received	01/19/10
Date Extracted	01/22/10 21:33 - 01/22/10 21:33
Date Analyzed	01/22/10 21:33 - 01/22/10 21:33
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	177	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	104		70	130
Surrogate % Recovery - FID	105		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g128-2490-1d	Lab Info: g128-2490-1d
FID Info: VP012210/027F0101.D	PID Info: VP012210/027R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2125-TW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	01/18/10 15:00
Date Received	01/19/10
Date Extracted	01/22/10 22:00 - 01/22/10 22:00
Date Analyzed	01/22/10 22:00 - 01/22/10 22:00
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	103		70	130
Surrogate % Recovery - FID	101		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g128-2490-2d	Lab Info: g128-2490-2d
FID Info: VP012210/028F0101.D	PID Info: VP012210/028R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2117-TW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	01/18/10 13:00
Date Received	01/19/10
Date Extracted	01/22/10 22:27 - 01/22/10 22:27
Date Analyzed	01/22/10 22:27 - 01/22/10 22:27
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	283	100		
C ₉ -C ₁₀ Aromatics**	571	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	113		70	130
Surrogate % Recovery - FID	108		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g128-2490-3d	Lab Info: g128-2490-3d
FID Info: VP012210/029F0101.D	PID Info: VP012210/029R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2103-TW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	01/18/10 14:00
Date Received	01/19/10
Date Extracted	01/22/10 22:54 - 01/22/10 22:54
Date Analyzed	01/22/10 22:54 - 01/22/10 22:54
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	105		70	130
Surrogate % Recovery - FID	103		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g128-2490-4d	Lab Info: g128-2490-4d
FID Info: VP012210/030F0101.D	PID Info: VP012210/030R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2953-TW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	01/18/10 15:30
Date Received	01/19/10
Date Extracted	01/22/10 23:21 - 01/22/10 23:21
Date Analyzed	01/22/10 23:21 - 01/22/10 23:21
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	105	100		
C ₉ -C ₁₀ Aromatics**	334	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	106		70	130
Surrogate % Recovery - FID	103		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g128-2490-5d	Lab Info: g128-2490-5d
FID Info: VP012210/031F0101.D	PID Info: VP012210/031R0101.D

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/04/09PID Initial Calibration Date: 12/04/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	15.00	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	22.39	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 01/22/10Filename: VP012210/002F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	11.5	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-9.0	±25%
C ₉ -C ₁₀ Aromatics	200	16	22.4	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/04/09PID Initial Calibration Date: 12/04/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	15.00	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	22.39	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 01/22/10Filename: VP012210/036F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	-1.3	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-18.7	±25%
C ₉ -C ₁₀ Aromatics	200	16	18.0	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/04/09PID Initial Calibration Date: 12/04/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	15.00	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	22.39	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 01/22/10Filename: VP012210/046F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	1.3	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-17.3	±25%
C ₉ -C ₁₀ Aromatics	200	16	22.7	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

 Client Name: Richard Catlin & Associates

 Project Name: TT-Sites

Sample Information	
Sample Identification	TT2506-TW01
Sample Matrix	Water
Date Collected	01/18/10 11:45
Date Received	01/19/10
Date Extracted	01/19/10
Date Analyzed	01/22/10 04:35 - 01/22/10 05:03
Dry Weight	NA
Dilution Factor	1 - 1
Initial Volume (mL)	847
Final Volume (mL)	5

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	210	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	93.9		40	140
Aromatic (ortho-terphenyl)	82.7		40	140
Fractionation 1 (2-bromonaphthalene)	95.3		40	140
Fractionation 2 (2-fluorobiphenyl)	97.2		40	140

Lab Info: G128-2490-1L	Lab Info: G128-2490-1L
Aliphatic: EP012110/029F2701.D	Aromatic: EP012110/030F2801.D

 Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2125-TW01
Sample Matrix	Water
Date Collected	01/18/10 15:00
Date Received	01/19/10
Date Extracted	01/19/10
Date Analyzed	01/22/10 05:31 - 01/22/10 08:16
Dry Weight	NA
Dilution Factor	1 - 1
Initial Volume (mL)	839
Final Volume (mL)	5

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	21.4	****	40	140
Aromatic (ortho-terphenyl)	90.3		40	140
Fractionation 1 (2-bromonaphthalene)	98.5		40	140
Fractionation 2 (2-fluorobiphenyl)	101		40	140

Lab Info: G128-2490-2L	Lab Info: G128-2490-2L
Aliphatic: EP012110/031F2901.D	Aromatic: EP012110/032F0101.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2117-TW01
Sample Matrix	Water
Date Collected	01/18/10 13:00
Date Received	01/19/10
Date Extracted	01/19/10
Date Analyzed	01/22/10 19:35 - 01/22/10 20:04
Dry Weight	NA
Dilution Factor	1 - 1
Initial Volume (mL)	890
Final Volume (mL)	5

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	379	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	90.5		40	140
Aromatic (ortho-terphenyl)	76.4		40	140
Fractionation 1 (2-bromonaphthalene)	94.9		40	140
Fractionation 2 (2-fluorobiphenyl)	98.9		40	140

Lab Info: G128-2490-3L	Lab Info: G128-2490-3L
Aliphatic: EP012210/007F0401.D	Aromatic: EP012210/008F0501.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2103-TW01
Sample Matrix	Water
Date Collected	01/18/10 14:00
Date Received	01/19/10
Date Extracted	01/19/10
Date Analyzed	01/22/10 20:32 - 01/22/10 21:00
Dry Weight	NA
Dilution Factor	1 - 1
Initial Volume (mL)	894
Final Volume (mL)	5

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	95.0		40	140
Aromatic (ortho-terphenyl)	82.2		40	140
Fractionation 1 (2-bromonaphthalene)	97.7		40	140
Fractionation 2 (2-fluorobiphenyl)	101		40	140

Lab Info: G128-2490-4L	Lab Info: G128-2490-4L
Aliphatic: EP012210/009F0601.D	Aromatic: EP012210/010F0701.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: TT-Sites

Sample Information	
Sample Identification	TT2953-TW01
Sample Matrix	Water
Date Collected	01/18/10 15:30
Date Received	01/19/10
Date Extracted	01/19/10
Date Analyzed	01/22/10 21:28 - 01/22/10 21:57
Dry Weight	NA
Dilution Factor	1 - 1
Initial Volume (mL)	902
Final Volume (mL)	5

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	293	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	92.3		40	140
Aromatic (ortho-terphenyl)	89.3		40	140
Fractionation 1 (2-bromonaphthalene)	96.9		40	140
Fractionation 2 (2-fluorobiphenyl)	99.1		40	140

Lab Info: G128-2490-5L	Lab Info: G128-2490-5L
Aliphatic: EP012210/011F0801.D	Aromatic: EP012210/012F0901.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/06/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	12.22	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	8.95	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.21	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 01/21/10
01/22/10Filenames: ep012110/021f1901.d
ep012110/022f2001.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	17.8	≤±25%
C19-C36 Aliphatics	100	16.7	20.0	≤±25%
C11-C22 Aromatics	100	16.7	3.5	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/06/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	12.22	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	8.95	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.21	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 01/22/10
01/22/10Filenames: ep012210/002f0201.d
ep012210/001f0101.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	17.4	≤±25%
C19-C36 Aliphatics	100	16.7	18.8	≤±25%
C11-C22 Aromatics	100	16.7	-1.1	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/06/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	12.22	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	8.95	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.21	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 01/22/10
01/23/10Filenames: ep012210/025f2201.d
ep012210/026f2301.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	-3.7	±25%
C19-C36 Aliphatics	100	16.7	8.6	±25%
C11-C22 Aromatics	100	16.7	1.3	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

APPENDIX E

BORING LOG, WELL CONSTRUCTION AND WELL ABANDONMENT RECORD

WELL LOG



209-112
Wilmington, NC

SHEET 1 OF 1

PROJECT NO.: 209-112	STATE: NC	COUNTY: Onslow	LOCATION: Jacksonville
PROJECT NAME: TT-2089/TT-Pond/TT-Drainage		LOGGED BY: Steve Tyler	WELL ID: TT2506-TW01
		DRILLER: William J. Miller	
NORTHING: 3846803.0	EASTING: 282223.2	CREW: NA	
SYSTEM: UTM NAD83 (m)		BORING LOCATION: Tarrawa Terrace	T.O.C. ELEV.: NA
DRILL MACHINE: CME 45B ATV	METHOD: HSA	0 HOUR DTW: 8.0	TOTAL DEPTH: 15.0
START DATE: 1/12/10	FINISH DATE: 1/12/10	24 HOUR DTW: 8.3	WELL DEPTH: 13.0

DEPTH	BLOW COUNT				OVA (ppm)	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	WELL DETAIL
6in	6in	6in	6in								
									0.0	LAND SURFACE	2.0 0.0
											1" Sch. 40 PVC
										(SM) - Brown, Silty f. SAND to Sandy SILT. Fill.	2.0
											3.0
											1" Std. 010 Sch. 40 PVC
									9.5		
										(SM) - Tan, Silty f. SAND to Sandy SILT. Native. Lightens in color with depth to white.	13.0
									15.0	Boring Terminated at Depth 15.0 ft	13.0



Bentonite Pellets



#2 Medium Sand

CATLIN BORING LOG 209-112 TT-2089-POND-DRAINAGE.GPJ CATLIN.GDT 1/27/10



Non RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources - Division of Water Quality

WELL CONTRACTOR CERTIFICATION #: 2927

1. WELL CONTRACTOR:

William J. Miller

Well Contractor (Individual) Name

CATLIN Engineers and Scientists

Well Contractor Company Name

220 Old Dairy Road

Street Address

Wilmington

North Carolina

28405

City or Town

State

Zip Code

(910) - 452-5861

Area code - Phone number

2. WELL INFORMATION

WELL CONSTRUCTION PERMIT #: N/A

OTHER ASSOCIATED PERMIT # (if applicable): N/A

SITE WELL ID # (if applicable) TT2506-TW01

3. WELL USE (Check One Box): Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use):

DATE DRILLED: January 12, 2010

4. WELL LOCATION:

Tarawa Terrace Housing Area,

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Jacksonville

COUNTY: Onslow

TOPOGRAPHIC / LAND SETTING (check appropriate box)

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other:

LATITUDE: 34.74010837 DD

LONGITUDE: 77.37881315 DD

Latitude/longitude source: ☒ GPS ☐ Topo. map

(Location of well must be shown on a USGS topo map and attached to this form if not using a GPS.)

5. FACILITY (Name of the business where the well is located)

N/A

N/A

Facility Name

Facility ID # (if applicable)

Tarawa Terrace Housing Area

Street Address

Jacksonville

NC

City or Town

State

Zip Code

Mr. Nick Schultz

Contact Name

Attn: I&E/ EMD/ EQB/ PSC Box 20004

Mailing Address

Camp Lejeune

NC

28542-0004

City or Town

State

Zip Code

(910)- 451-5068

Area code - Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 13

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: 8.34 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 2 FT. Above Land Surface*

* Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C.0118.

e. YIELD (gpm): N/A METHOD OF TEST: N/A

f. DISINFECTION: Type N/A Amount: N/A

g. WATER ZONES (depth):

Top Bottom Top Bottom

Top Bottom Top Bottom

Top Bottom Top Bottom

7. CASING:

Depth Diameter Thickness/Weight Material

Top 0 Bottom 3 Ft. 1 in. Sch. 40 PVC

Top Bottom Ft. in.

Top Bottom Ft. in.

8. GROUT:

Depth Material Method

Top Bottom Ft.

Top 1 Bottom 2 Ft.

Top Bottom Ft.

9. SCREEN:

Depth Diameter Slot Size Material

Top 3 Bottom 13 Ft. 1 in. Slot .010 in. PVC

Top Bottom Ft. in. in.

Top Bottom Ft. in. in.

10. SAND/GRAVEL PACK:

Depth Size Material

Top 2 Bottom 13 Ft. #2 Medium Torpedo Sand

Top Bottom Ft.

Top Bottom Ft.

11. DRILLING LOG

Top Bottom Formation Description

SEE ATTACHED

12. REMARKS:

TEMPORARY TYPE II Abandoned subsequent to sampling.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR

DATE

William J. Miller

PRINTED NAME OF PERSON CONSTRUCTING THE WELL



WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources - Division of Water Quality

WELL CONTRACTOR CERTIFICATION #: 2927

CATLIN PROJECT NO 209-112

1. WELL CONTRACTOR:

William J. Miller

Well Contractor (Individual) Name

CATLIN Engineers and Scientists

Well Contractor Company Name

STREET ADDRESS 220 Old Dairy Road

Wilmington North Carolina 28405

City or Town State Zip Code

(910) - 452-5861

Area code - Phone number

2. WELL INFORMATION

SITE WELL ID # (if applicable): TT2506-TW01

STATE WELL PERMIT # (if applicable): N.A.

COUNTY WELL PERMIT # (if applicable): N.A.

DWQ or OTHER PERMIT # (if applicable):

WELL USE (Check Applicable Box): Monitoring ☒ Residential ☐

Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐

Recovery ☐ Injection ☐ Irrigation ☐

Other (list use):

3. WELL LOCATION:

COUNTY: Onslow QUADRANGLE:

NEAREST TOWN: Jacksonville

Tarawa Terrace Housing Area

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING

Slope ☐ Valley ☐ Flat ☒ Ridge ☐ Other: _____

LATITUDE: 34.74010837

LONGITUDE: 77.37881315

May be in degrees, minutes, seconds, or in a decimal

Latitude/longitude source: ☒ GPS ☐ Topo. map

(Location of well must be shown on a USGS topo map and attached to this form if not using a GPS.)

4a. FACILITY - The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only)

FACILITY ID # (if applicable) Not Applicable

NAME OF FACILITY:

STREET ADDRESS: Tarawa Terrace Housing Area

Jacksonville North Carolina

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME: Mr. Nick Schultz

STREET ADDRESS: Attn: I&E/ EMD/ EQB/ PSC Box 20004

Camp Lejeune NC 28542-0004

City or Town State Zip Code

(910) 451-5068

Area code - Phone number

5. WELL DETAILS:

a. Total Depth: 13 ft. Diameter: 1 in.

b. Water Level (Below Measuring Point): 8.34 ft.

Measuring point is 2.0 ft. above land surface

6. CASING:

Length

Diameter

a. Casing Depth (if known): 3 ft. 1 in.

b. Casing Removed: 5 ft. 1 in.

7. DISINFECTION: N/A

(Amount of 70% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement _____ lb.

Water _____ gal.

Sand Cement

Cement _____ lb.

Water _____ gal.

Bentonite

Bentonite 80 lb.

Type: Slurry _____ Pellets ☒

Water _____ gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pulled well screen and casing, backfilled hole with bentonite pellets.

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 1/18/2010

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR

DATE 1/27/2010

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL

DATE

(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C 0113)

William J. Miller

PRINTED NAME OF PERSON ABANDONING THE WELL

Submit a copy to the owner and the original to the Division of Water Quality within 30 days.
Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699167, Phone No. (919) 733-7015 ext 568.

Modified from
Form GW-30
Rev. 5/06