

**UNDERGROUND STORAGE TANK
CLOSURE REPORT**

**UST TT-3026
Tarawa Terrace**

**Marine Corps Base
Camp Lejeune, North Carolina**

January 21, 2009



**Contract No. N40085-08-D-1401
CTO No. 0002**

**UST-12
UNDERGROUND STORAGE TANK CLOSURE REPORT
BUILDING TT-3026
TARAWA TERRACE
MCB CAMP LEJEUNE, NORTH CAROLINA**

A. GENERAL INFORMATION

1. Facility Information

a. Facility Name:

Building TT-3026
Tarawa Terrace

b. Facility ID Number:

N/A

c. Facility address, telephone number, and county:

Commanding Officer
Director, Installations and Environment Department, Environmental
Management Division (EMD)
PSC Box 20004
MCB Camp Lejeune, North Carolina, 28542-0004
910-451-5068
Onslow County

2. Contacts

a. Name, address, telephone number, and job title of primary contact person:

Mr. Bruce Markwick
Installations & Environment Department, Environmental Management
Division
MCB Camp Lejeune, North Carolina 28542
(910) 451-5068

b. Name, address, and telephone number of closure contractor:

Osage of Virginia
2618A Colley Avenue
Norfolk, Virginia 23517-1132
(757) 440-0400

c. Name, address, and telephone number of primary consultant:

Osage of Virginia
2618A Colley Avenue
Norfolk, Virginia 23517-1132
(757) 440-0400

d. Name, address, telephone number, and State certification number of laboratory:

SGS Environmental Services (SGS)
5500 Business Drive
Wilmington, North Carolina 28405
(910) 350-1903
NC Laboratory Certification # 481

3. UST Information

Tank Number	Installation Date	Capacity (Gallons)	Tank Dimensions	Last Contents of Tank
TT-3026	Unknown	550	4 ft x 6 ft	#2 Heating Oil

4. Site Characteristics

a. Describe any past releases at the site:

No previous releases have been reported in conjunction with this tank.

b. Indicate if the facility is active or inactive. If inactive, note the last date that the USTs were in operation:

The UST was an inactive home heating oil tank previously used to store #2 Heating Oil for on-site use.

c. Describe the use of surrounding properties:

The site is located within the Tarawa Terrace Housing Area aboard the Marine Corps Base Camp Lejeune. The construction area, where existing housing sites are being demolished, will be used to re-build military housing units. As a result, land use should be categorized as Residential.

d. Describe site geology and hydrogeology:

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 12 feet below ground surface.

e. If a release has occurred, describe the results of the receptor survey performed within 1,500 feet of the facility:

The nearest surface water body is an unnamed tributary of the New River, which is approximately 2,000 feet southwest of the site. Groundwater flow direction in the surficial aquifer is estimated to flow toward the river. There are no water supply wells within a 1,500 ft 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.

B. CLOSURE PROCEDURES

1. Describe preparations for closure including steps taken to notify authorities, permits obtained, and steps taken to clean and purge the tanks:

The tank was discovered by Actus Lend Lease on October 23, 2008 while personnel were clearing land as part of a housing demolition. On October 24, 2008, approximately 200 gallons of contaminated water was pumped from the tank. The tank was removed and transported to EMD, Resource Conservation and Recovery Section (RCRS) Building 977 for cleaning.

Once removed, Osage was tasked with tank cleaning and disposal. The tank was cleaned with water. Purge water was disposed of at EMD, Resource Conservation and Recovery Section (RCRS) Building 977.

There were signs of deterioration and corrosion on the sides and bottom of the UST. Photographs of the tank are included in Appendix F. The tank was transported to Jacksonville Scrap Iron and Metal Company for disposal on November 6, 2008. The disposal manifest is in Appendix D.

2. Note the amount of residual material pumped from the tank:

Approximately 200 gallons of contaminated water was pumped from the tank.

3. Describe the storage, sampling and disposal of the residual material:

200 gallons of contaminated water was pumped from the tank and approximately 150 gallons of rinsate water was collected during the cleaning of the tank. All material was containerized and properly disposed of by EMD, RCRS at Building 977.

4. Excavation

a. Describe excavation procedures noting the condition of the soil encountered and the dimensions of the excavation in relation to the tank, piping, and/or pumps:

EMD contacted Osage on October 23, 2008 about the discovery of the tank. Osage mobilized to the site to conduct a site survey and remove the UST on October 24, 2008. Once the UST was removed, petroleum odor and staining were noted in the tank basin. A Mini Rae photo ionization detector (PID) was used to scan soils in the tank basin; readings exceeded 50 ppm.

The excavation was extended horizontally until PID readings diminished below 40 ppm on the PID. The excavation was extended vertically to a

depth of 5.5 feet Below Land Surface (BLS), at which point PID readings were approximately 100 ppm. The initial excavation measured 14' (length) x 10' (width) x 5.5' (depth). Approximately 31.19 tons of contaminated soil was transported to Camp Lejeune's soil staging area, TP-467. Soil samples S001 through S005 were collected after this initial excavation.

On October 30, 2008 Osage returned to the site to conduct over excavation of all tank basin sidewalls, as well as the floor since laboratory analysis indicated all samples contained noncompliant TPH concentrations. The resultant excavation measured 24' (length) x 23' (width) x 7' (depth). An additional 87.14 tons of soil was excavated and transported to TP-467. Site activity was suspended on October 31, 2008 due to the need for tank pulls at other Tarawa Terrace locations. As a result, the area was fenced off to ensure security.

Osage attempted to restart site work; however, between November 11 and 14, 2008, heavy and continuous rain days prohibited further work to be completed at the site. Rain water filled the excavation; therefore, EMD/RCRS utilized a vacuum truck to remove the standing rain water. Approximately 2,000 gallons of water was removed from excavation. Bad weather continued, which prevented further actions at this site.

Osage personnel were able to resume site work from November 18 - 21, 2008. Saturated soils were removed from the excavation and caved sidewalls were cleaned up. As a result, an additional 206.42 tons of soil was removed from the tank basin and transported to TP467.

Confirmation soil samples were collected on November 21, 2008 and submitted for analysis via EPA Methods 8260, 8270, and MADEP VPH/EPH. Soil samples S006 through S009 were collected at a depth of 3'ft BLS, and sample S010 was collected at a depth of 7'ft BLS.

b. Note the depth from the land surface to the top of the tank:

Approximately 2 feet.

c. Note the volume of soil excavated:

A total of 324.75 tons of soil was excavated from the tank basin – 31.19 tons of contaminated soil was excavated on October 24, 2008, 87.14 tons between October 30 and 31, 2008, and 206.42 tons between November 18 through 21, 2008.

d. Describe the soil type(s) encountered:

Based on field observation of the tank excavation:

0.0 – 2.5' BLS – Dry light brown silty sand with dark silty sand

2.5 – 7.0' BLS – Slightly moist light brown silty clay with sand

e. Describe the type and source of backfill used:

EMD authorized backfilling on November 26, 2008 once final laboratory results were received. Rain delays prevented Osage from completing backfill actions in one site visit. Backfilling was completed between December 5 through 10, 2008. The excavation was filled with common fill sand from Morton Trucking in Jacksonville, NC.

f. Note if water, free product, or bedrock was encountered during the excavation process:

No groundwater, free product, or bedrock was encountered during the excavation process.

5. Contaminated soil

During UST removal activities and over excavation, a total of 324.75 tons of contaminated soil were excavated. The contaminated soil was transported to a lay down facility at the Base (Building TP-467) to await disposal via contract N62470-08-D-1007, CTO 056.

C. SITE INVESTIGATION

1. Provide information of field screening and physical observations, including methods used to calibrate field screening instruments:

Soil discoloration and petroleum odor were observed within the UST excavation. PID field screening indicated moderate organic vapor readings in the sidewalls, as well as at the bottom. Readings exceeded 50 ppm. The MiniRae PID instrument was calibrated using the standard procedure as recommended by the manufacturer.

2. Document soil sampling information including the sample locations, sample type, procedure, and analyses used:

Soil sample locations are illustrated on Figure 2.

Confirmation soil samples (sample IDs TT3026-S001 through S005) were collected from the tank basin on October 24, 2008 immediately following excavation of the basin. Soil samples TT3026-S001 through S004 were collected from the sidewalls at a depth of 3.0 feet. Soil sample TT2908-S005 was obtained from the bottom of the tank basin at approximately 5.0 feet Below Land Surface (BLS). The samples were placed into laboratory provided glassware, properly labeled, and transported directly to SGS under proper chain of custody. Samples were analyzed for Total Petroleum Hydrocarbons (TPH) Gasoline and Diesel Range Organics (GRO/DRO) via EPA Method 8015.

On October 30, 2008, Osage returned to the site to over excavate all soil sample locations (sidewalls and bottom) due to the presence of TPH GRO and TPH DRO

concentrations above the 10 mg/kg NCDENR Action Level. Additional contaminated soil was excavated from the tank basin. After over excavation, five confirmation soil samples were collected (soil samples TT3026-S0006 through TT3026-S0010). Soil samples S006 through S009 were collected from the excavation sidewalls at a depth of 3.0 feet BLS to correspond to the previous samples S001 through S004. Soil sample S0010 was obtained from the bottom of the tank basin at approximately 7.0 feet BLS. Samples were again placed into laboratory provided glassware, properly labeled, and transported directly to SGS under proper chain of custody. Samples were analyzed using EPA Methods 8260, 8270, and MADEP VPH/EPH.

3. Document groundwater sampling information:

No groundwater was encountered during this investigation; therefore, no groundwater samples were collected.

4. Document quality-control measures:

Laboratory provided glassware and containers and disposable gloves were used during sampling. Upon collection, soil samples were immediately packed into clean containers and refrigerated for shipment to the analytical laboratory. There was a laboratory trip blank included with cooler of samples collected.

5. Describe investigation results:

Some soil discoloration and petroleum odor were observed during tank removal. Elevated PID readings indicated the presence of organic vapors in the sidewalls, as well as the excavation bottom.

Laboratory results of the soil samples collected during this tank removal action are summarized in Tables 1 and 2.

Once the tank was removed from the subsurface on October 24, 2008, Osage collected five soil samples as shown on Figure 2. Soil samples S001-S004 were taken from the sidewalls, and sample S005 was taken from the bottom of the excavation. Soil samples were analyzed for TPH GRO and DRO via EPA Method 8015. Soil samples TT3026-S002 and TT3026-S005 exhibited detectable TPH GRO concentrations of 10.1 mg/kg and 12.3 mg/kg, respectively. Each soil sample (S001 through S005) contained noncompliant TPH DRO concentrations.

Osage returned to the site on October 30, 2008 to over excavate soil from the tank basin. Once over-excavation was complete, Osage obtained additional confirmation soil samples S006 through S010. These samples were sent to SGS for analysis via EPA Methods 8260, 8270, and MADEP VPH/EPH. Laboratory results are discussed as follows:

EPA METHOD 8260

Soil sample S006 contained Fluorene, 2-Methylnaphthalene, and Phenanthrene. All detections were less than the lowest Maximum Soil Contaminant Concentration (MSCC), except for the 2-Methylnaphthalene concentration of 3.15 mg/kg. This value is greater than the Soil to Groundwater (STGW) MSCC (1.7 mg/kg) and less than the Residential MSCC (63 mg/kg).

Soil sample S008 only contained 2-Methylnaphthalene at a concentration of 1.3 mg/kg, which is less than the lowest MSCC.

Soil samples S007, S009, and S010 did not contain detectable EPA Method 8260 compounds.

All other EPA Method 8260 compounds were reported as Below Method Detection Limits (BMDL).

EPA METHOD 8270

EPA Method 8270 compounds were detected in soil samples S006, S008, and S009. Laboratory results for soil samples S007 and S010 were reported as BMDL for all target analytes.

All detections were below the lowest MSCC, with the exception of 4-Isopropyltoluene and Naphthalene. Samples S008 and S009 contained detections of 4-Isopropyltoluene at 0.264 mg/kg and 0.0072 mg/kg, respectively. Since there are no established MSCCs for this compound, any detection is reportable. For comparison purposes, however, the C₉-C₂₂ Aromatics MSCCs can be used since both chemical structures are based on the Benzene ring and 4-Isopropyltoluene has a total of 10 Carbon atoms in its structure. Both detected concentrations are below the lowest C₉-C₂₂ Aromatics MSCC of 34 mg/kg.

Naphthalene was also detected at the site in soil samples S006 (0.807 mg/kg) and S008 (1.11 mg/kg). Both concentrations are above the STGW MSCC of 0.58 mg/kg and below the Residential MSCC of 313 mg/kg.

MADEP VPH/EPH

MADEP constituents were detected in soil samples S006, S008, and S009. Results for S007 and S010 were reported as BMDL for all MADEP parameters.

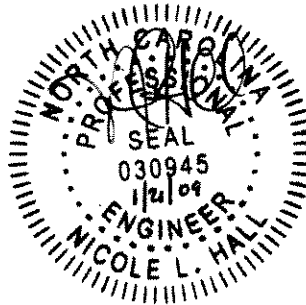
All detections in soil samples S006, S008, and S009 were less than the lowest MSCC, except for the C₉-C₂₂ Aromatics concentrations. Laboratory analysis indicated C₉-C₂₂ Aromatics concentrations of 361 mg/kg in S006, 188.4 mg/kg in S008, and 43.5 mg/kg in S009. Each of these detections are above the STGW MSCC of 34 mg/kg, but less than the Residential MSCC of 469 mg/kg.

D. Conclusions and Recommendation

A total of 324.75 tons of contaminated soil was removed from the Building TT-3026 site. Confirmation soil sample results indicate that site soils have been remediated to less than the Residential MSCCs. All detections at the site were below the lowest MSCC, with the exception of results for 2-Methylnaphthalene, 4-Isopropyltoluene, Naphthalene, and C₉-C₂₂ Aromatics. Detected concentrations for these compounds were above the STGW MSCCs, but below the Residential MSCCs. Although there are no established MSCCs for 4-Isopropyltoluene, comparison to the C₉-C₂₂ Aromatics MSCC standards shows compliance with the STGW and Residential values of 34 mg/kg and 469 mg/kg.

Since site soils have been remediated to less than the Residential MSCCs, the site's Land Use is assumed Residential, and there are no raw water supply wells within 1,500 feet of the site (as shown on Figure 1), this site meets criteria to receive No Further Action. Public Notice will be required, however, pursuant to 15A NCAC 2L .0409.

Signature and seal of certifying Professional Engineer or Licensed Geologist



F. Enclosures

1. Figures

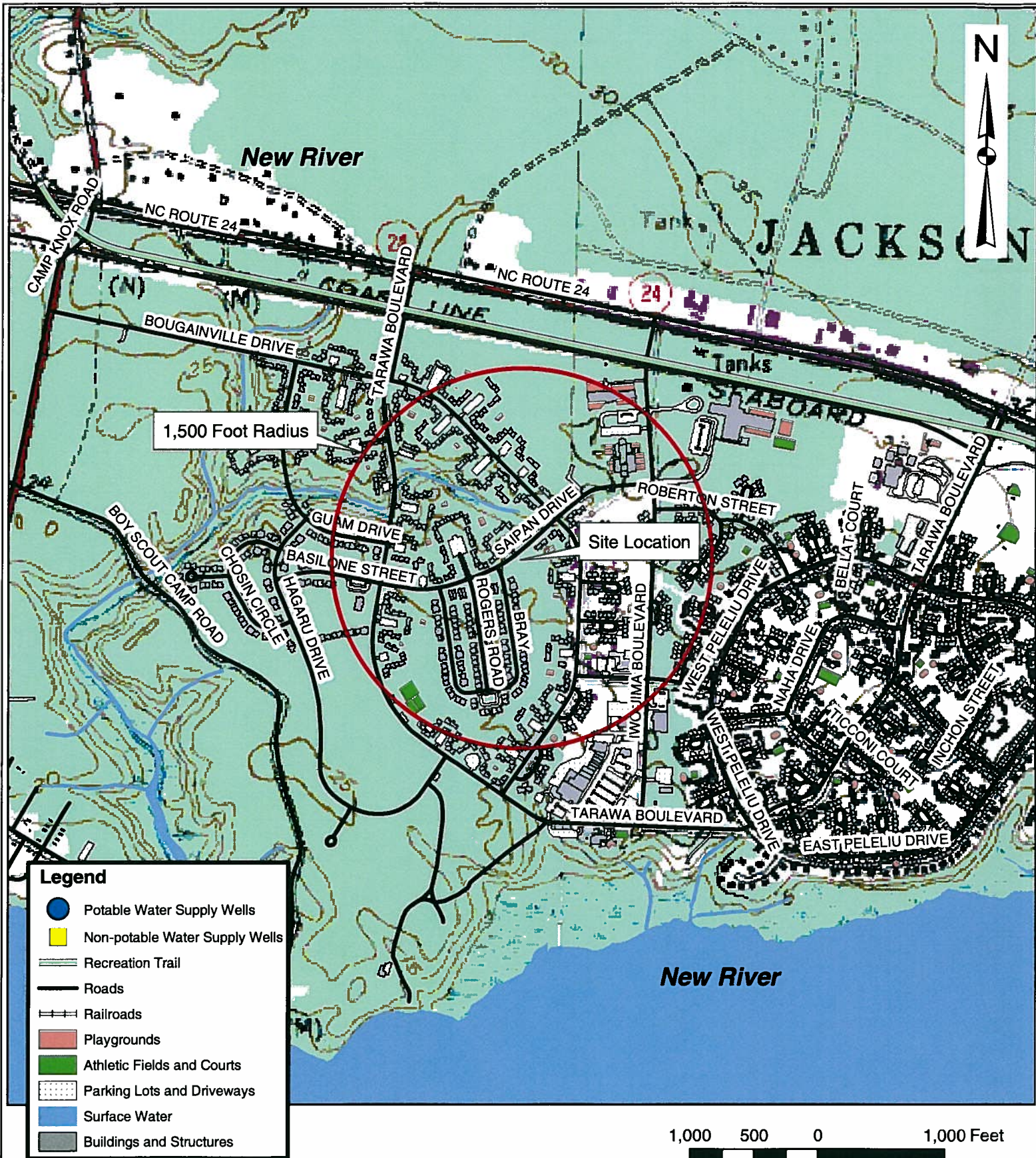
- a. USGS Topographic Map**
- b. Site Map**

2. Tables

- a. Summary of Soil Laboratory Results – Event on October 24, 2008**
- b. Summary of Soil Laboratory Results – Event on November 21, 2008**

3. Appendices

- Appendix A: Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)**
- Appendix B: 24 Hour Release and UST Leak Reporting Form (UST-61)**
- Appendix C: Certificate of UST disposal**
- Appendix D: Disposal Manifests**
- Appendix E: Laboratory Analytical Reports**
- Appendix F: Photographs**



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

	PROJECT TANK REMOVAL BUILDING TT-3026 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE SITE LOCATION MAP		FIGURE 1
	JOB NO. 206-094	DATE JAN 2009	SCALE AS SHOWN	DRAWN BY SAC	CHECKED BY SCW

TABLE 1
SUMMARY OF SOIL LABORATORY RESULTS
EPA Method 8015 (GRO and DRO)
Excavation/Sampling Event on 10/24/2008

Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
	Date Collected	Sample Depth (ft. BLS)		
NCDENR ACTION LEVEL (mg/kg)			10	10
TT3026-S001	10/24/2008	3.0	<5.76	41.9
TT3026-S002	10/24/2008	3.0	10.1	432
TT3026-S003	10/24/2008	3.0	7.11	684
TT3026-S004	10/24/2008	3.0	<6.41	269
TT3026-S005	10/24/2008	5.0	12.3	125

All results in milligrams per kilogram (mg/kg).
ft. BLS = Feet Below Land Surface.
<# = Less than method detection limit
Bold results indicate concentrations above NCDENR Action Level.

TABLE 2
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHODS 8260, 8270, and MADEP VPH/EPH
Excavation/Sampling Event on 11/21/2008

Sample ID	Contaminant of Concern →		EPA 8260				MADEP VPH/EPH			
	Date Collected	Sample Depth (ft. BLS)	Fluorene	2-Methylnaphthalene	Phenanthrene	All Other 8260 Compounds	C ₉ -C ₁₀ Aliphatics	C ₉ -C ₁₀ Aliphatics	C ₁₁ -C ₁₄ Aliphatics	C ₁₅ -C ₂₄ Aromatics
Residential MSCC (mg/kg)			620	63	469	Varies	939	9,386	93,860	469
Industrial/Commercial MSCC (mg/kg)			16,400	1,635	12,264	Varies	24,528	245,280	#	12,264
Soil to Groundwater MSCC (mg/kg)			44	1.7	60	Varies	72	3,300	##	34
TT3026-S006	11/21/2008	3.0	0.444	3.15	0.553	BMDL	<10.0	476.5	67.6	361
TT3026-S007	11/21/2008	3.0	<0.383	<0.383	<0.383	BMDL	<10.0	<20.0	<10.0	<20.0
TT3026-S008	11/21/2008	3.0	<0.379	1.3	<0.379	BMDL	<10.0	281.4	42.7	188.4
TT3026-S009	11/21/2008	3.0	<0.382	<0.382	<0.382	BMDL	<10.0	86.5	11.0	43.5
TT3026-S010	11/21/2008	7.0	<0.514	<0.514	<0.514	BMDL	<10.0	<20.0	<10.0	<20.0
Sample ID	Contaminant of Concern →		EPA 8270							
	Date Collected	Sample Depth (ft. BLS)	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propyl benzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
Residential MSCC (mg/kg)			626	626	1564	NE	313	626	782	782
Industrial/Commercial MSCC (mg/kg)			16,350	16,350	40,880	NE	8176	16350	20,440	20,440
Soil to Groundwater MSCC (mg/kg)			4.3	3.3	1.7	NE	0.58	1.7	7.5	7.3
TT3026-S006	11/21/2008	3.0	0.291	0.368	0.121	<0.0912	0.807	0.151	<0.0912	<0.0912
TT3026-S007	11/21/2008	3.0	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463
TT3026-S008	11/21/2008	3.0	<0.110	0.368	0.287	0.264	1.11	0.287	0.500	0.312
TT3026-S009	11/21/2008	3.0	<0.00552	0.00819	0.0107	0.0072	0.0574	0.00889	<0.00552	<0.00552
TT3026-S010	11/21/2008	7.0	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809

All results in milligram per Kilogram (mg/kg)
BMDL = Below Method Detection Limit
ft. BLS = Feet Below Land Surface.
MSCC = Maximum Soil Contaminant Concentrations
= Health based level > 100%
= Considered Immobile
<# = Less than method detection limit
BOLD concentrations are greater than the lowest MSCC.
NE = Not Established

TANK REMOVAL
BUILDING TT-3026
MARINE CORPS BASE
CAMP LEJEUNE, NC



LEGEND

- Excavation Areas
- Soil Sample Location
- Demolished Buildings and Structures
- Slabs
- Driveways
- Parking Lots
- Woods

NOTES

1. Data layers provided by MCB Camp Lejeune GIS office.
2. Soil sample location TT3026-S005 provided by Lanier Surveying. Soil sample locations TT3026-S001 through TT3026-S004 and TT2225-S006 through TT3026-S010 were not surveyed.
3. Initial excavation limits were approximately 14' by 10' by 5.5' deep. Over-excavation increased dimensions to 24' by 23' by 7' deep.



SITE MAP WITH
SOIL SAMPLE RESULTS

FIGURE

2

Job No.: 206-094

Date: JAN 2009

Scale: AS SHOWN

Drawn By: SAC

Checked By: SCW

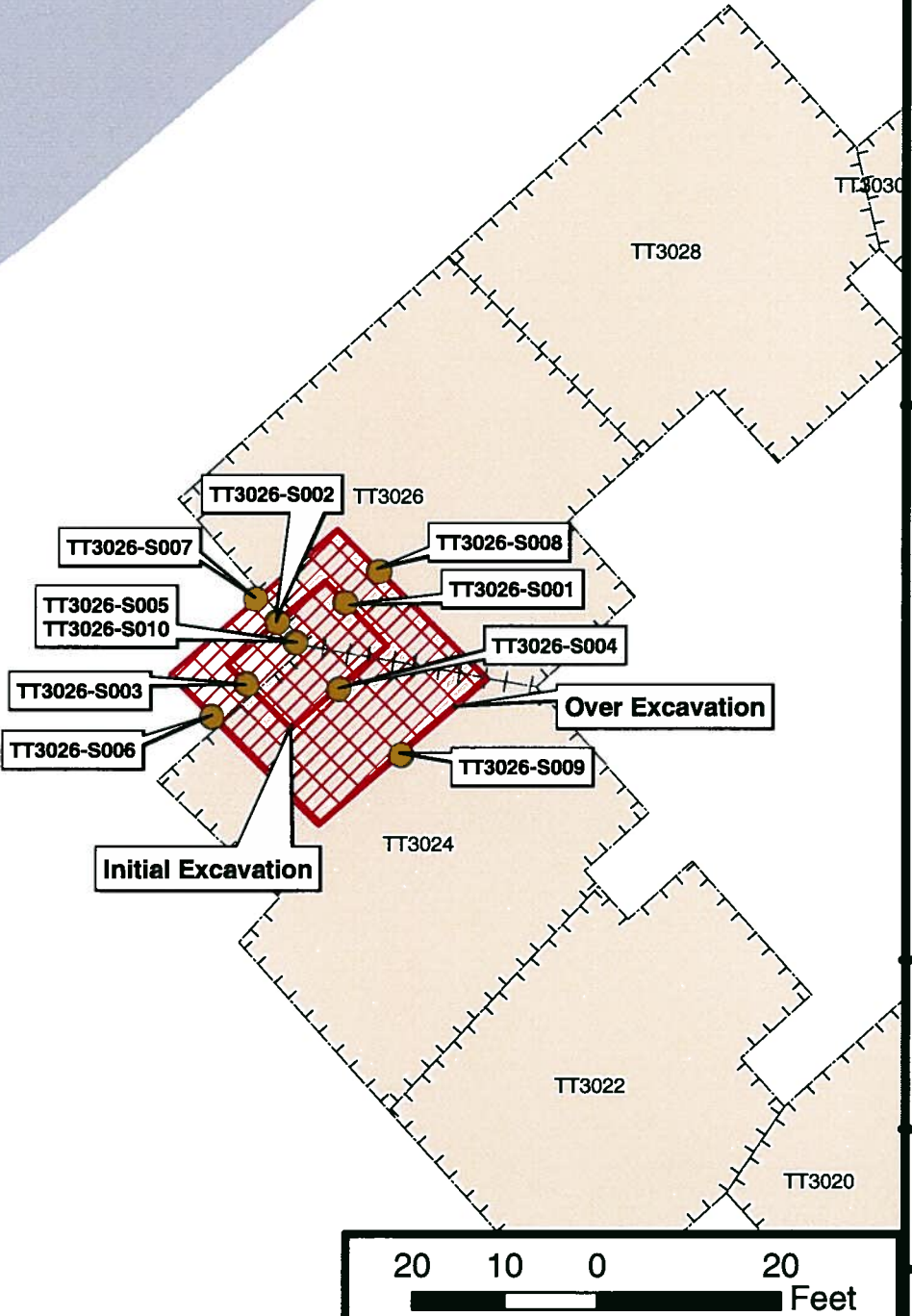


TABLE 1
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Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
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TABLE 2
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Excavation/Sampling Event on 11/21/2008

Sample ID	Contaminant of Concern →		EPA 8260				MADEP VPH/EPH				
			Fluorene	2-Methylnaphthalene	Phenanthrene	All Other 8260 Compounds	C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₉ -C ₂₂ Aromatics	
Residential MSCC (mg/kg)			620	63	469	Varies	939	9,386	93,860	469	
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TT3026-S010	11/21/2008	5.0	<0.514	<0.514	<0.514	BMDL	<10.0	<20.0	<10.0	<20.0	
			EPA 8270								
			n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propyl benzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	All Other 8270 Compounds
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Soil to Groundwater MSCC (mg/kg)			4.3	3.3	1.7	NE	0.58	1.7	7.5	7.3	Varies
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TT3026-S007	11/21/2008	3.0	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	BMDL
TT3026-S008	11/21/2008	3.0	<0.110	0.368	0.287	0.264	1.11	0.287	0.500	0.312	BMDL
TT3026-S009	11/21/2008	3.0	<0.00552	0.00819	0.0107	0.0072	0.0574	0.00889	<0.00552	<0.00552	BMDL
TT3026-S010	11/21/2008	7.0	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	<0.00809	BMDL

All results in milligram per Kilogram (mg/kg)
BMDL = Below Method Detection Limit
ft. BLS = Feet Below Land Surface.
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= Health based level > 100%
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BOLD concentrations are greater than the lowest MSCC
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APPENDIX A
Site Investigation Report for Permanent Closure or Change-in-Service of UST
(UST-2)

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

Return completed form to:

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

STATE USE ONLY:

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

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

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

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

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

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

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

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Commanding Officer, Marine Corps Base

Street Address Bldg 1 PSC Box 20004

City Camp Lejeune

County Onslow

State North Carolina

Zip Code 28542-0004

Phone Number 910 451-9660

II. LOCATION OF TANKS

Facility Name or Company

Tarawa Terrace Housing, ACTUS Lend Lease

Facility ID # (if known) N/A

Street Address TT3026 Saipan Drive

City Camp Lejeune

County Onslow

Zip Code 28542

Phone Number 910 451-9660

III. CONTACT PERSONNEL

Contact for Facility: Bruce Markwick

Job Title: Environmental Protection Specialist

Phone No: 910 451-9660

Closure Contractor Name:

Closure Contractor Company:

Address:

Phone No:

Primary Consultant Name:

Primary Consultant Company:

Address:

Phone No:

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

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

V. EXCAVATION CONDITION

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
TT3026	550	4ft x 6ft D	#2 Fuel Oil	early 1970s	Unknown	See above	☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VII. EXCAVATION CONDITION

* 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:

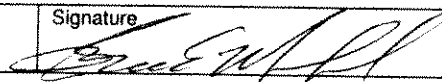
VIII. CERTIFICATION

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

Bruce Markwick Environmental Protection Specialist

Signature



Date Signed

1/25/09

APPENDIX B
24 Hour Release and UST Leak Reporting Form (UST-61)

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) Yes _____
Confirmed GW Contamination? (Y/N) No _____
Confirmed Soil Contamination? (Y/N) Yes _____
Samples Taken? (Y/N) Yes _____
Free Product? (Y/N) No _____ If Yes, State Greatest
Thickness _____

Facility ID Number N/A
Date Leak Discovered _____
Common-Commercial _____
Reg. Non-regulated? _____

INCIDENT DESCRIPTION

Incident Name: TT3026

Address: TT3026 Siapan

County: Onslow

City/Town: Camp Lejeune

Zip Code: 28542

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

Latitude (decimal degrees): 34 44. 11.987 N

Longitude (decimal degrees): 77 22 33.168 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)

During housing demolition project in the Tarawa Terrace housing area Actus Lend Lease discovered an old abandoned heating oil tank located in the phase IV section. The tank was discovered on 23 October 2008 and the contents was removed the same day. Excavation and removal of the tank started on 24 October 2008. October 30, 2008 samples returned indicated a release. Further excavation and samples will be taken and a report will 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) During demo project

SOURCE OF CONTAMINATION**Source of Release**

(Check one to indicate primary source)

- ☒ Tank
☐ Piping
☐ Dispenser
☐ Submersible Turbine Pump
☐ Delivery Problem
☐ Other
☐ Unknown

Cause of Release

(Check one to indicate primary cause)

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

Type of Release

(Check one)

- ☒ Petroleum
☐ Non-Petroleum
☐ Both

Location
(Check one)

- ☐ Facility
☐ Residence
☐ Other

Product Type Released

(Check one to indicate primary product type released)

- ☐ Gasoline/ Diesel/ Kerosene
☒ Heating Oil
☐ Other Petroleum Products
☐ Metals
☐ Other Inorganics
☐ Other Organics
☐ Diesel/Veg. Oil Blend
☐ Vegetable Oil 100%
☐ E10 - E20
☐ E21 - E84
☐ E85 - E99
☐ Ethanol 100%
☐ E01 - E09

Definitions presented on reverse

Definitions presented on reverse

Ownership

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

Operation Type

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

IMPACT ON DRINKING WATER SUPPLIES

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

Number of Water Supply Wells Affected _____

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

- 1.
- 2.
- 3.

UST SYSTEM OWNER

UST Owner/Company USMC, ACTUS LEND LEASE

Point of Contact Bruce Markwick		Address Bldg 12 Post Lane	
City Camp Lejeune	State NC	Zip Code 28542	Telephone Number 910 451-9660

UST SYSTEM OPERATOR

UST Operator/Company USMC		Address Same as above Owner	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner Same as above		Address	
City	State	Zip Code	Telephone Number

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

Person Reporting Incident Bruce Markwick	Company USMC, MCBCL	Telephone Number 910 451-9660
Title Environmental Protection Spec.	Address Bldg 12 Post Lane	Date 31 Oct 08

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

APPENDIX C
Certificate of UST Disposal

Tank Disposal Manifest

Tank Owner: Commanding Officer, Marine Corps Base,
Camp Lejeune NC 28542

Tank/Owner Authorized Representative

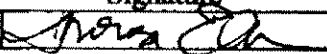
Contact: Bruce Markwick

Phone: (910) 451-9660

Description of Tank:

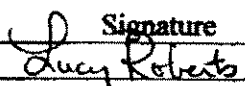
Tank ID	Capacity	Previous Contents	Comments/Dimension
TT-3026	550 gal	Heating Oil	4 Ft X 6 Ft Dim

Transporter: Osage of Virginia
2618 Colley Ave Ste A
Norfolk, VA 23517
Phone: (757) 440-0400

Print Name	Signature	Month/Day/Year
Theresa Ellerman		11/6/08

The undersigned certifies that the above named storage tank(s) has been cut into scrap and accepted by the disposal facility.

Name of Receiving Facility: Jacksonville Scrap Iron and Metal Inc
3560 Richlands Highway
Jacksonville NC 28540
Phone: (910) 347-2323

Print Name	Signature	Month/Day/Year
Lucy Roberts		11/6/08

APPENDIX D
Disposal Manifests

**BLANK - NO MANIFESTS ATTACHED
SOIL AT TP-457 AWAITING DISPOSAL**

APPENDIX E
Laboratory Analytical Reports



Shaun Whitworth
Osage of Virginia
2618 A Colley Ave
Norfolk, VA 23517

Report Number: G649-77

Client Project: CTO 002

Dear Shaun Whitworth,

Enclosed are the results of the analytical services performed under the referenced project. 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 Ashley Nifong at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS Environmental Services, Inc.

Project Manager
Ashley Nifong

Date

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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

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.



Print Date: 10/29/2008

Client Sample ID: TT3026-S001
Client Project ID: CTO 002
Lab Sample ID: G649-77-1D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:11
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 81.52
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	41.9	7.15	MG/KG	1	29-Oct-08 4:49

Surrogates

OTP	68.5	40-140	%	1	29-Oct-08 4:49
-----	------	--------	---	---	----------------

Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC8
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 34.32
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: TT3026-S002
Client Project ID: CTO 002
Lab Sample ID: G649-77-2D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:30
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.03
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	432	16.4	MG/KG	2	29-Oct-08 10:28

Surrogates

OTP	67.9	40-140	%	2	29-Oct-08 10:28
-----	------	--------	---	---	-----------------

Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC6
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 32.1
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: TT3026-S003
Client Project ID: CTO 002
Lab Sample ID: G649-77-3D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:25
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 82.43
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	684	72.0	MG/KG	10	29-Oct-08 10:57

Surrogates

OTP	85.5	40-140	%	10	29-Oct-08 10:57
-----	------	--------	---	----	-----------------

Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC8
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 33.68
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: TT3026-S004

Client Project ID: CTO 002

Lab Sample ID: G649-77-4D

Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:18

Received Date: 28-Oct-08

Matrix: SOIL

Solids: 83.19

Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	269	7.49	MG/KG	1	29-Oct-08 7:09

Surrogates

OTP	61	40-140	%	1	29-Oct-08 7:09
-----	----	--------	---	---	----------------

Batch Information

Analytical Batch: EP102808

Analytical Method: 8015DRO

Instrument: GC6

Analyst: EAW

Prep Batch:

Prep Method: 3541

Prep Date/Time:

Initial Prep Wt./Vol.: 32.09

Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: TT3026-S005
Client Project ID: CTO 002
Lab Sample ID: G649-77-5D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 13:58
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.65
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	125	7.81	MG/KG	1	29-Oct-08 7:37

Surrogates

OTP	57.1	40-140	%	1	29-Oct-08 7:37
-----	------	--------	---	---	----------------

Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC6
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 33.39
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: TT3026-S001
Client Project ID: CTO 002
Lab Sample ID: G649-77-1A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:11
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 81.52
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	BQL	5.76	MG/KG	1	28-Oct-08 13:42

Surrogates

BFB	100	70-130	%	1	28-Oct-08 13:42
-----	-----	--------	---	---	-----------------

Batch Information

Analytical Batch: VP102808
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 6.39
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S002
Client Project ID: CTO 002
Lab Sample ID: G649-77-2A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:30
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.03
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RI/CI</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	10.1	6.44	MG/KG	1	29-Oct-08 11:25

Surrogates

BFB	104	70-130	%	1	29-Oct-08 11:25
-----	-----	--------	---	---	-----------------

Batch Information

Analytical Batch: VP102908
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 6.13
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S003
Client Project ID: CTO 002
Lab Sample ID: G649-77-3A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:25
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 82.43
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	7.11	6.08	MG/KG	1	29-Oct-08 12:45

Surrogates

BFB	100	70-130	%	1	29-Oct-08 12:45
-----	-----	--------	---	---	-----------------

Batch Information

Analytical Batch: VP102908
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 5.99
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S004
Client Project ID: CTO 002
Lab Sample ID: G649-77-4A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:18
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 83.19
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	BQL	6.41	MG/KG	1	28-Oct-08 14:09

Surrogates

BFB	94.8	70-130	%	1	28-Oct-08 14:09
-----	------	--------	---	---	-----------------

Batch Information

Analytical Batch: VP102808
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 5.63
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S005
Client Project ID: CTO 002
Lab Sample ID: G649-77-5A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 13:58
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.65
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	12.3	6.04	MG/KG	1	29-Oct-08 13:38

Surrogates

BFB	101	70-130	%	1	29-Oct-08 13:38
-----	-----	--------	---	---	-----------------

Batch Information

Analytical Batch: VP102908
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 6.48
Prep Extract Vol: 5



Locations Nationwide

- Alaska
- Hawaii
- Ohio
- Maryland
- New Jersey
- North Carolina
- West Virginia

WWW.LIS.SQIS.COM

39888

Page 23 of 18

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive Wilmington, NC 28408 Tel: (910) 350-1903 Fax: (910) 350-1657

1270 Greenbrier Street
Charleston, WV 25311
Tel: (304) 346-0725 Fax: (304) 346-0781

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Sampler



Shaun Whitworth
Osage of Virginia
2618 A Colley Ave
Norfolk, VA 23517

Report Number: G649-85

Client Project: CTO 002

Dear Shaun Whitworth,

Enclosed are the results of the analytical services performed under the referenced project. 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 the services performed during this project, please call SGS Environmental Services at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.

11/26/08
Project Manager Date
Ashley Nifong

List of Reporting Abbreviations
and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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

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.

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S006
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 18:01 - 11/25/08 18:30
Dry Weight	83.4
Dilution Factor	1 - 1
Initial weight (g)	12.5
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	412	10.0	
C19-C36 Aliphatics	67.6	10.0	
C11-C22 Aromatics	220	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	108		40	140
Aromatic (ortho-terphenyl)	104		40	140
Fractionation 1 (2-bromonaphthalene)	120		40	140
Fractionation 2 (2-fluorobiphenyl)	107		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-1G	Lab Info: G649-85-1G
Aliphatic: EP112508/015F2101.D	Aromatic: EP112508/016F2201.D

Reviewed By: pm

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S007
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 18:58 - 11/25/08 19:27
Dry Weight	81.8
Dilution Factor	1 - 1
Initial weight (g)	13.57
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	111		40	140
Aromatic (ortho-terphenyl)	51.0		40	140
Fractionation 1 (2-bromonaphthalene)	54.7		40	140
Fractionation 2 (2-fluorobiphenyl)	53.0		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-2G	Lab Info: G649-85-2G
Aliphatic: EP112508/017F2301.D	Aromatic: EP112508/018F2401.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S008
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 19:55 - 11/25/08 20:23
Dry Weight	79.0
Dilution Factor	1 - 1
Initial weight (g)	12.64
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	252	10.0	
C19-C36 Aliphatics	42.7	10.0	
C11-C22 Aromatics	141	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	107		40	140
Aromatic (ortho-terphenyl)	104		40	140
Fractionation 1 (2-bromonaphthalene)	120		40	140
Fractionation 2 (2-fluorobiphenyl)	107		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-3G	Lab Info: G649-85-3G
Aliphatic: EP112508/019F2501.D	Aromatic: EP112508/020F2601.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

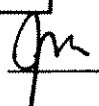
Sample Information	
Sample Identification	TT3026-S009
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 20:52 - 11/25/08 21:20
Dry Weight	80.0
Dilution Factor	1 - 1
Initial weight (g)	12.86
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	70.7	10.0	
C19-C36 Aliphatics	11.0	10.0	
C11-C22 Aromatics	23.4	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	102		40	140
Aromatic (ortho-terphenyl)	99.2		40	140
Fractionation 1 (2-bromonaphthalene)	122		40	140
Fractionation 2 (2-fluorobiphenyl)	116		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-4G	Lab Info: G649-85-4G
Aliphatic: EP112508/021F2701.D	Aromatic: EP112508/022F2801.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S010
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 21:48 - 11/25/08 22:16
Dry Weight	62.5
Dilution Factor	1 - 1
Initial weight (g)	11.24
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	101		40	140
Aromatic (ortho-terphenyl)	96.1		40	140
Fractionation 1 (2-bromonaphthalene)	113		40	140
Fractionation 2 (2-fluorobiphenyl)	108		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-5G	Lab Info: G649-85-5G
Aliphatic: EP112508/023F2901.D	Aromatic: EP112508/024F3001.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/22/08

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	17.73	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	10.65	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	10.39	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 11/25/08
11/25/08Filenames: ep112508/001f1601.d
ep112508/002f1701.d

Calibration Check

Range	Levels		%Difference if CF %Drift if LR	Limits
	(µg/L)	(mg/Kg)		
C9-C18 Aliphatics	100	16.7	22.3	±25%
C19-C36 Aliphatics	100	16.7	18.4	±25%
C11-C22 Aromatics	100	16.7	13.2	±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: 10/22/08

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	17.73	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	10.65	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	10.39	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 11/26/08
11/26/08Filenames: ep112608/001f0101.d
ep112608/002f0201.d

Calibration Check

Range	Levels		%Difference if CF %Drift if LR	Limits
	(µg/L)	(mg/Kg)		
C9-C18 Aliphatics	100	16.7	14.9	≤±25%
C19-C36 Aliphatics	100	16.7	9.3	≤±25%
C11-C22 Aromatics	100	16.7	3.8	≤±25%

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable LimitRPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S006
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 11:15 - 11/25/08 11:15
Dry Weight	83.4
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	64.5	10.0		
C ₉ -C ₁₀ Aromatics**	141	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	103		70	130
Surrogate % Recovery - FID	118		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: g649-85-1e	Lab Info: g649-85-1e
FID Info: VP112508/007F0101.D	PID Info: VP112508/007R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S007
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 02:59 - 11/25/08 02:59
Dry Weight	81.8
Dilution Factor	1 - 1

Analytical Results			
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags
C ₅ -C ₈ Aliphatics**	BQL	10.0	
C ₉ -C ₁₂ Aliphatics**	BQL	10.0	
C ₉ -C ₁₀ Aromatics**	BQL	10.0	
	Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID	94.8		70 130
Surrogate % Recovery - FID	95.5		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: g649-85-2e	Lab Info: g649-85-2e
FID Info: VP112408/039F0101.D	PID Info: VP112408/039R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S008
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 03:26 - 11/25/08 03:26
Dry Weight	79.0
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	29.4	10.0		
C ₉ -C ₁₀ Aromatics**	47.4	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	99.0		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: g649-85-3e	Lab Info: g649-85-3e
FID Info: VP112408/040F0101.D	PID Info: VP112408/040R0101.D

Reviewed By: *gpm*

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

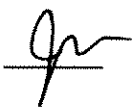
Sample Information	
Sample Identification	TT3026-S009
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 03:53 - 11/25/08 03:53
Dry Weight	80.0
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	15.8	10.0		
C ₉ -C ₁₀ Aromatics**	20.1	10.0		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		93.8		70 130
Surrogate % Recovery - FID		97.9		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: g649-85-4e	Lab Info: g649-85-4e
FID Info: VP112408/041F0101.D	PID Info: VP112408/041R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S010
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 04:19 - 11/25/08 04:19
Dry Weight	62.5
Dilution Factor	1 - 1

Analytical Results			
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags
C ₅ -C ₈ Aliphatics**	BQL	10.0	
C ₉ -C ₁₂ Aliphatics**	BQL	10.0	
C ₉ -C ₁₀ Aromatics**	BQL	10.0	
	Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID	95.7		70 130
Surrogate % Recovery - FID	96.8		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: g649-85-5e	Lab Info: g649-85-5e
FID Info: VP112408/042F0101.D	PID Info: VP112408/042R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	Trip Blanks
Sample Matrix	Soil
Collection Option (for Soil)*	NA
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 02:06 - 11/25/08 02:06
Dry Weight	100
Dilution Factor	1 - 1

Analytical Results			
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags
C ₅ -C ₈ Aliphatics**	BQL	10.0	
C ₉ -C ₁₂ Aliphatics**	BQL	10.0	
C ₉ -C ₁₀ Aromatics**	BQL	10.0	
	Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID	95.7		70 130
Surrogate % Recovery - FID	97.0		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: g649-85-6b	Lab Info: g649-85-6b
FID Info: VP112408/037F0101.D	PID Info: VP112408/037R0101.D

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 11/18/08PID Initial Calibration Date: 11/18/08

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	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 11/24/08Filename: VP112408/015F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	6.9	±25%
C ₉ -C ₁₂ Aliphatics	200	16	1.1	±25%
C ₉ -C ₁₀ Aromatics	200	16	9.6	±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: 11/18/08PID Initial Calibration Date: 11/18/08

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	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 11/24/08Filename: VP112408/047F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	-1.1	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-12.4	±25%
C ₉ -C ₁₀ Aromatics	200	16	2.5	±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 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 11/18/08PID Initial Calibration Date: 11/18/08

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	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 11/25/08Filename: VP112508/002F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	10.7	±25%
C ₉ -C ₁₂ Aliphatics	200	16	3.1	±25%
C ₉ -C ₁₀ Aromatics	200	16	4.8	±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: 11/18/08PID Initial Calibration Date: 11/18/08

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	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 11/25/08Filename: VP112508/011F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	6.6	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-3.6	±25%
C ₉ -C ₁₀ Aromatics	200	16	3.9	±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

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S006
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-1H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.18 g

Analized By: DES
 Date Collected: 11/21/2008 15:35
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 83.41

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	361	1	11/25/2008
Acenaphthylene	BQL	361	1	11/25/2008
Anthracene	BQL	361	1	11/25/2008
Benzo[a]anthracene	BQL	361	1	11/25/2008
Benzo[a]pyrene	BQL	361	1	11/25/2008
Benzo[b]fluoranthene	BQL	361	1	11/25/2008
Benzo[g,h,i]perylene	BQL	361	1	11/25/2008
Benzo[k]fluoranthene	BQL	361	1	11/25/2008
Benzoic Acid	BQL	723	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	361	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	361	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	361	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	361	1	11/25/2008
4-bromophenyl phenyl ether	BQL	361	1	11/25/2008
Butylbenzylphthalate	BQL	361	1	11/25/2008
2-Chloronaphthalene	BQL	361	1	11/25/2008
2-Chlorophenol	BQL	361	1	11/25/2008
4-Chloro-3-methylphenol	BQL	361	1	11/25/2008
4-Chloroaniline	BQL	1810	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	361	1	11/25/2008
Chrysene	BQL	361	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	361	1	11/25/2008
Dibenzofuran	BQL	361	1	11/25/2008
Di-n-Butylphthalate	BQL	361	1	11/25/2008
1,2-Dichlorobenzene	BQL	361	1	11/25/2008
1,3-Dichlorobenzene	BQL	361	1	11/25/2008
1,4-Dichlorobenzene	BQL	361	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	723	1	11/25/2008
2,4-Dichlorophenol	BQL	361	1	11/25/2008
Diethylphthalate	BQL	361	1	11/25/2008
Dimethylphthalate	BQL	361	1	11/25/2008
2,4-Dimethylphenol	BQL	361	1	11/25/2008
Di-n-octylphthalate	BQL	361	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1810	1	11/25/2008
2,4-Dinitrophenol	BQL	1810	1	11/25/2008
2,4-Dinitrotoluene	BQL	361	1	11/25/2008
2,6-Dinitrotoluene	BQL	361	1	11/25/2008
Diphenylamine *	BQL	361	1	11/25/2008
Fluoranthene	BQL	361	1	11/25/2008
Fluorene	444	361	1	11/25/2008
Hexachlorobenzene	BQL	361	1	11/25/2008
Hexachlorobutadiene	BQL	361	1	11/25/2008
Hexachlorocyclopentadiene	BQL	723	1	11/25/2008
Hexachloroethane	BQL	361	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	361	1	11/25/2008
Isophorone	BQL	361	1	11/25/2008
2-Methylnaphthalene	3150	361	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S006
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-1H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.18 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:35
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 83.41

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
2-Methylphenol	BQL	361	1	11/25/2008
3- & 4-Methylphenol	BQL	361	1	11/25/2008
Naphthalene	BQL	361	1	11/25/2008
2-Nitroaniline	BQL	361	1	11/25/2008
3-Nitroaniline	BQL	1810	1	11/25/2008
4-Nitroaniline	BQL	1810	1	11/25/2008
Nitrobenzene	BQL	361	1	11/25/2008
2-Nitrophenol	BQL	361	1	11/25/2008
4-Nitrophenol	BQL	1810	1	11/25/2008
N-Nitrosodi-n-propylamine	BQL	361	1	11/25/2008
Pentachlorophenol	BQL	1810	1	11/25/2008
Phenanthrene	553	361	1	11/25/2008
Phenol	BQL	361	1	11/25/2008
Pyrene	BQL	361	1	11/25/2008
1,2,4-Trichlorobenzene	BQL	361	1	11/25/2008
2,4,5-Trichlorophenol	BQL	361	1	11/25/2008
2,4,6-Trichlorophenol	BQL	361	1	11/25/2008

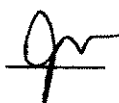
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	8.8	88
Nitrobenzene-d5	10	10.3	103
Phenol-d6	10	9.2	92
2,4,6-Tribromophenol	10	7.9	79
4-Terphenyl-d14	10	9.3	93

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-2H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.96 g

Analized By: DES
 Date Collected: 11/21/2008 15:40
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 81.76

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	383	1	11/25/2008
Acenaphthylene	BQL	383	1	11/25/2008
Anthracene	BQL	383	1	11/25/2008
Benzo[a]anthracene	BQL	383	1	11/25/2008
Benzo[a]pyrene	BQL	383	1	11/25/2008
Benzo[b]fluoranthene	BQL	383	1	11/25/2008
Benzo[g,h,i]perylene	BQL	383	1	11/25/2008
Benzo[k]fluoranthene	BQL	383	1	11/25/2008
Benzoic Acid	BQL	765	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	383	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	383	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	383	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	383	1	11/25/2008
4-bromophenyl phenyl ether	BQL	383	1	11/25/2008
Butylbenzylphthalate	BQL	383	1	11/25/2008
2-Chloronaphthalene	BQL	383	1	11/25/2008
2-Chlorophenol	BQL	383	1	11/25/2008
4-Chloro-3-methylphenol	BQL	383	1	11/25/2008
4-Chloroaniline	BQL	1910	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	383	1	11/25/2008
Chrysene	BQL	383	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	383	1	11/25/2008
Dibenzofuran	BQL	383	1	11/25/2008
Di-n-Butylphthalate	BQL	383	1	11/25/2008
1,2-Dichlorobenzene	BQL	383	1	11/25/2008
1,3-Dichlorobenzene	BQL	383	1	11/25/2008
1,4-Dichlorobenzene	BQL	383	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	765	1	11/25/2008
2,4-Dichlorophenol	BQL	383	1	11/25/2008
Diethylphthalate	BQL	383	1	11/25/2008
Dimethylphthalate	BQL	383	1	11/25/2008
2,4-Dimethylphenol	BQL	383	1	11/25/2008
Di-n-octylphthalate	BQL	383	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1910	1	11/25/2008
2,4-Dinitrophenol	BQL	1910	1	11/25/2008
2,4-Dinitrotoluene	BQL	383	1	11/25/2008
2,6-Dinitrotoluene	BQL	383	1	11/25/2008
Diphenylamine *	BQL	383	1	11/25/2008
Fluoranthene	BQL	383	1	11/25/2008
Fluorene	BQL	383	1	11/25/2008
Hexachlorobenzene	BQL	383	1	11/25/2008
Hexachlorobutadiene	BQL	383	1	11/25/2008
Hexachlorocyclopentadiene	BQL	765	1	11/25/2008
Hexachloroethane	BQL	383	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	383	1	11/25/2008
Isophorone	BQL	383	1	11/25/2008
2-Methylnaphthalene	BQL	383	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-2H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.96 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:40
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 81.76

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
2-Methylphenol	BQL	383	1	11/25/2008
3- & 4-Methylphenol	BQL	383	1	11/25/2008
Naphthalene	BQL	383	1	11/25/2008
2-Nitroaniline	BQL	383	1	11/25/2008
3-Nitroaniline	BQL	1910	1	11/25/2008
4-Nitroaniline	BQL	1910	1	11/25/2008
Nitrobenzene	BQL	383	1	11/25/2008
2-Nitrophenol	BQL	383	1	11/25/2008
4-Nitrophenol	BQL	1910	1	11/25/2008
N-Nitrosodi-n-propylamine	BQL	383	1	11/25/2008
Pentachlorophenol	BQL	1910	1	11/25/2008
Phenanthrene	BQL	383	1	11/25/2008
Phenol	BQL	383	1	11/25/2008
Pyrene	BQL	383	1	11/25/2008
1,2,4-Trichlorobenzene	BQL	383	1	11/25/2008
2,4,5-Trichlorophenol	BQL	383	1	11/25/2008
2,4,6-Trichlorophenol	BQL	383	1	11/25/2008

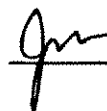
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.4	94
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	10.2	102
Phenol-d6	10	9.1	91
2,4,6-Tribromophenol	10	7.2	72
4-Terphenyl-d14	10	9.6	96

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S008
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-3J
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.38 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:45
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 78.98

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	379	1	11/25/2008
Acenaphthylene	BQL	379	1	11/25/2008
Anthracene	BQL	379	1	11/25/2008
Benzo[a]anthracene	BQL	379	1	11/25/2008
Benzo[a]pyrene	BQL	379	1	11/25/2008
Benzo[b]fluoranthene	BQL	379	1	11/25/2008
Benzo[g,h,i]perylene	BQL	379	1	11/25/2008
Benzo[k]fluoranthene	BQL	379	1	11/25/2008
Benzoic Acid	BQL	759	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	379	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	379	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	379	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	379	1	11/25/2008
4-bromophenyl phenyl ether	BQL	379	1	11/25/2008
Butylbenzylphthalate	BQL	379	1	11/25/2008
2-Chloronaphthalene	BQL	379	1	11/25/2008
2-Chlorophenol	BQL	379	1	11/25/2008
4-Chloro-3-methylphenol	BQL	379	1	11/25/2008
4-Chloroaniline	BQL	1900	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	379	1	11/25/2008
Chrysene	BQL	379	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	379	1	11/25/2008
Dibenzofuran	BQL	379	1	11/25/2008
Di-n-Butylphthalate	BQL	379	1	11/25/2008
1,2-Dichlorobenzene	BQL	379	1	11/25/2008
1,3-Dichlorobenzene	BQL	379	1	11/25/2008
1,4-Dichlorobenzene	BQL	379	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	759	1	11/25/2008
2,4-Dichlorophenol	BQL	379	1	11/25/2008
Diethylphthalate	BQL	379	1	11/25/2008
Dimethylphthalate	BQL	379	1	11/25/2008
2,4-Dimethylphenol	BQL	379	1	11/25/2008
Di-n-octylphthalate	BQL	379	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1900	1	11/25/2008
2,4-Dinitrophenol	BQL	1900	1	11/25/2008
2,4-Dinitrotoluene	BQL	379	1	11/25/2008
2,6-Dinitrotoluene	BQL	379	1	11/25/2008
Diphenylamine *	BQL	379	1	11/25/2008
Fluoranthene	BQL	379	1	11/25/2008
Fluorene	BQL	379	1	11/25/2008
Hexachlorobenzene	BQL	379	1	11/25/2008
Hexachlorobutadiene	BQL	379	1	11/25/2008
Hexachlorocyclopentadiene	BQL	759	1	11/25/2008
Hexachloroethane	BQL	379	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	379	1	11/25/2008
Isophorone	BQL	379	1	11/25/2008
2-Methylnaphthalene	1300	379	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S008
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-3J
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.38 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:45
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 78.98

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
2-Methylphenol	BQL	379	1	11/25/2008
3- & 4-Methylphenol	BQL	379	1	11/25/2008
Naphthalene	BQL	379	1	11/25/2008
2-Nitroaniline	BQL	379	1	11/25/2008
3-Nitroaniline	BQL	1900	1	11/25/2008
4-Nitroaniline	BQL	1900	1	11/25/2008
Nitrobenzene	BQL	379	1	11/25/2008
2-Nitrophenol	BQL	379	1	11/25/2008
4-Nitrophenol	BQL	1900	1	11/25/2008
N-Nitrosodi-n-propylamine	BQL	379	1	11/25/2008
Pentachlorophenol	BQL	1900	1	11/25/2008
Phenanthrene	BQL	379	1	11/25/2008
Phenol	BQL	379	1	11/25/2008
Pyrene	BQL	379	1	11/25/2008
1,2,4-Trichlorobenzene	BQL	379	1	11/25/2008
2,4,5-Trichlorophenol	BQL	379	1	11/25/2008
2,4,6-Trichlorophenol	BQL	379	1	11/25/2008

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.9	99
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	10.5	105
Phenol-d6	10	9.5	95
2,4,6-Tribromophenol	10	7.9	79
4-Terphenyl-d14	10	10.5	105

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-4H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 32.73 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:50
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 79.96

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	382	1	11/25/2008
Acenaphthylene	BQL	382	1	11/25/2008
Anthracene	BQL	382	1	11/25/2008
Benzo[a]anthracene	BQL	382	1	11/25/2008
Benzo[a]pyrene	BQL	382	1	11/25/2008
Benzo[b]fluoranthene	BQL	382	1	11/25/2008
Benzo[g,h,i]perylene	BQL	382	1	11/25/2008
Benzo[k]fluoranthene	BQL	382	1	11/25/2008
Benzoic Acid	BQL	764	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	382	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	382	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	382	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	382	1	11/25/2008
4-bromophenyl phenyl ether	BQL	382	1	11/25/2008
Butylbenzylphthalate	BQL	382	1	11/25/2008
2-Chloronaphthalene	BQL	382	1	11/25/2008
2-Chlorophenol	BQL	382	1	11/25/2008
4-Chloro-3-methylphenol	BQL	382	1	11/25/2008
4-Chloroaniline	BQL	1910	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	382	1	11/25/2008
Chrysene	BQL	382	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	382	1	11/25/2008
Dibenzofuran	BQL	382	1	11/25/2008
Di-n-Butylphthalate	BQL	382	1	11/25/2008
1,2-Dichlorobenzene	BQL	382	1	11/25/2008
1,3-Dichlorobenzene	BQL	382	1	11/25/2008
1,4-Dichlorobenzene	BQL	382	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	764	1	11/25/2008
2,4-Dichlorophenol	BQL	382	1	11/25/2008
Diethylphthalate	BQL	382	1	11/25/2008
Dimethylphthalate	BQL	382	1	11/25/2008
2,4-Dimethylphenol	BQL	382	1	11/25/2008
Di-n-octylphthalate	BQL	382	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1910	1	11/25/2008
2,4-Dinitrophenol	BQL	1910	1	11/25/2008
2,4-Dinitrotoluene	BQL	382	1	11/25/2008
2,6-Dinitrotoluene	BQL	382	1	11/25/2008
Diphenylamine *	BQL	382	1	11/25/2008
Fluoranthene	BQL	382	1	11/25/2008
Fluorene	BQL	382	1	11/25/2008
Hexachlorobenzene	BQL	382	1	11/25/2008
Hexachlorobutadiene	BQL	382	1	11/25/2008
Hexachlorocyclopentadiene	BQL	764	1	11/25/2008
Hexachloroethane	BQL	382	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	382	1	11/25/2008
Isophorone	BQL	382	1	11/25/2008
2-Methylnaphthalene	BQL	382	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-4H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 32.73 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:50
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 79.96

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
2-Methylphenol	BQL	382	1	11/25/2008
3- & 4-Methylphenol	BQL	382	1	11/25/2008
Naphthalene	BQL	382	1	11/25/2008
2-Nitroaniline	BQL	382	1	11/25/2008
3-Nitroaniline	BQL	1910	1	11/25/2008
4-Nitroaniline	BQL	1910	1	11/25/2008
Nitrobenzene	BQL	382	1	11/25/2008
2-Nitrophenol	BQL	382	1	11/25/2008
4-Nitrophenol	BQL	1910	1	11/25/2008
N-Nitrosodi-n-propylamine	BQL	382	1	11/25/2008
Pentachlorophenol	BQL	1910	1	11/25/2008
Phenanthrene	BQL	382	1	11/25/2008
Phenol	BQL	382	1	11/25/2008
Pyrene	BQL	382	1	11/25/2008
1,2,4-Trichlorobenzene	BQL	382	1	11/25/2008
2,4,5-Trichlorophenol	BQL	382	1	11/25/2008
2,4,6-Trichlorophenol	BQL	382	1	11/25/2008

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9	90
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	10	100
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	10	7.2	72
4-Terphenyl-d14	10	10	100

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S010
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-5H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.11 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:30
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 62.54

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	514	1	11/25/2008
Acenaphthylene	BQL	514	1	11/25/2008
Anthracene	BQL	514	1	11/25/2008
Benzo[a]anthracene	BQL	514	1	11/25/2008
Benzo[a]pyrene	BQL	514	1	11/25/2008
Benzo[b]fluoranthene	BQL	514	1	11/25/2008
Benzo[g,h,i]perylene	BQL	514	1	11/25/2008
Benzo[k]fluoranthene	BQL	514	1	11/25/2008
Benzoic Acid	BQL	1030	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	514	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	514	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	514	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	514	1	11/25/2008
4-bromophenyl phenyl ether	BQL	514	1	11/25/2008
Butylbenzylphthalate	BQL	514	1	11/25/2008
2-Chloronaphthalene	BQL	514	1	11/25/2008
2-Chlorophenol	BQL	514	1	11/25/2008
4-Chloro-3-methylphenol	BQL	514	1	11/25/2008
4-Chloroaniline	BQL	2570	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	514	1	11/25/2008
Chrysene	BQL	514	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	514	1	11/25/2008
Dibenzofuran	BQL	514	1	11/25/2008
Di-n-Butylphthalate	BQL	514	1	11/25/2008
1,2-Dichlorobenzene	BQL	514	1	11/25/2008
1,3-Dichlorobenzene	BQL	514	1	11/25/2008
1,4-Dichlorobenzene	BQL	514	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	1030	1	11/25/2008
2,4-Dichlorophenol	BQL	514	1	11/25/2008
Diethylphthalate	BQL	514	1	11/25/2008
Dimethylphthalate	BQL	514	1	11/25/2008
2,4-Dimethylphenol	BQL	514	1	11/25/2008
Di-n-octylphthalate	BQL	514	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	2570	1	11/25/2008
2,4-Dinitrophenol	BQL	2570	1	11/25/2008
2,4-Dinitrotoluene	BQL	514	1	11/25/2008
2,6-Dinitrotoluene	BQL	514	1	11/25/2008
Diphenylamine *	BQL	514	1	11/25/2008
Fluoranthene	BQL	514	1	11/25/2008
Fluorene	BQL	514	1	11/25/2008
Hexachlorobenzene	BQL	514	1	11/25/2008
Hexachlorobutadiene	BQL	514	1	11/25/2008
Hexachlorocyclopentadiene	BQL	1030	1	11/25/2008
Hexachloroethane	BQL	514	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	514	1	11/25/2008
Isophorone	BQL	514	1	11/25/2008
2-Methylnaphthalene	BQL	514	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S010
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-5H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.11 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:30
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 62.54

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
2-Methylphenol	BQL	514	1	11/25/2008
3- & 4-Methylphenol	BQL	514	1	11/25/2008
Naphthalene	BQL	514	1	11/25/2008
2-Nitroaniline	BQL	514	1	11/25/2008
3-Nitroaniline	BQL	2570	1	11/25/2008
4-Nitroaniline	BQL	2570	1	11/25/2008
Nitrobenzene	BQL	514	1	11/25/2008
2-Nitrophenol	BQL	514	1	11/25/2008
4-Nitrophenol	BQL	2570	1	11/25/2008
N-Nitrosodi-n-propylamine	BQL	514	1	11/25/2008
Pentachlorophenol	BQL	2570	1	11/25/2008
Phenanthrene	BQL	514	1	11/25/2008
Phenol	BQL	514	1	11/25/2008
Pyrene	BQL	514	1	11/25/2008
1,2,4-Trichlorobenzene	BQL	514	1	11/25/2008
2,4,5-Trichlorophenol	BQL	514	1	11/25/2008
2,4,6-Trichlorophenol	BQL	514	1	11/25/2008

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	9.5	95
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	6.7	67
4-Terphenyl-d14	10	8.9	89

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: TT3026-S006
Client Project ID: CTO 002
Lab Sample ID: G649-85-1D
Lab Project ID: G649-85
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 11/21/2008 15:35
Date Received: 11/22/2008
Matrix: Soil
Sample Amount: 6.57 g
%Solids: 83.4

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2280	100	11/24/2008
Benzene	BQL	91.2	100	11/24/2008
Bromobenzene	BQL	91.2	100	11/24/2008
Bromochloromethane	BQL	91.2	100	11/24/2008
Bromodichloromethane	BQL	91.2	100	11/24/2008
Bromoform	BQL	91.2	100	11/24/2008
Bromomethane	BQL	91.2	100	11/24/2008
2-Butanone	BQL	2280	100	11/24/2008
n-Butylbenzene	291	91.2	100	11/24/2008
sec-Butylbenzene	368	91.2	100	11/24/2008
tert-Butylbenzene	BQL	91.2	100	11/24/2008
Carbon disulfide	BQL	91.2	100	11/24/2008
Carbon tetrachloride	BQL	91.2	100	11/24/2008
Chlorobenzene	BQL	91.2	100	11/24/2008
Chloroethane	BQL	91.2	100	11/24/2008
Chloroform	BQL	91.2	100	11/24/2008
Chloromethane	BQL	91.2	100	11/24/2008
2-Chlorotoluene	BQL	91.2	100	11/24/2008
4-Chlorotoluene	BQL	91.2	100	11/24/2008
Dibromochloromethane	BQL	91.2	100	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	456	100	11/24/2008
Dibromomethane	BQL	91.2	100	11/24/2008
1,2-Dibromoethane (EDB)	BQL	91.2	100	11/24/2008
1,2-Dichlorobenzene	BQL	91.2	100	11/24/2008
1,3-Dichlorobenzene	BQL	91.2	100	11/24/2008
1,4-Dichlorobenzene	BQL	91.2	100	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	456	100	11/24/2008
1,1-Dichloroethane	BQL	91.2	100	11/24/2008
1,1-Dichloroethene	BQL	91.2	100	11/24/2008
1,2-Dichloroethane	BQL	91.2	100	11/24/2008
cis-1,2-Dichloroethene	BQL	91.2	100	11/24/2008
trans-1,2-dichloroethene	BQL	91.2	100	11/24/2008
1,2-Dichloropropane	BQL	91.2	100	11/24/2008
1,3-Dichloropropane	BQL	91.2	100	11/24/2008
2,2-Dichloropropane	BQL	91.2	100	11/24/2008
1,1-Dichloropropene	BQL	91.2	100	11/24/2008
cis-1,3-Dichloropropene	BQL	91.2	100	11/24/2008
trans-1,3-Dichloropropene	BQL	91.2	100	11/24/2008
Dichlorodifluoromethane	BQL	456	100	11/24/2008
Diisopropyl ether (DIPE)	BQL	91.2	100	11/24/2008
Ethylbenzene	BQL	91.2	100	11/24/2008
Hexachlorobutadiene	BQL	91.2	100	11/24/2008
2-Hexanone	BQL	456	100	11/24/2008
Iodomethane	BQL	91.2	100	11/24/2008
Isopropylbenzene	121	91.2	100	11/24/2008

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: TT3026-S006
Client Project ID: CTO 002
Lab Sample ID: G649-85-1D
Lab Project ID: G649-85
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 11/21/2008 15:35
Date Received: 11/22/2008
Matrix: Soil
Sample Amount: 6.57 g
%Solids: 83.4

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	91.2	100	11/24/2008
Methylene chloride	BQL	456	100	11/24/2008
4-Methyl-2-pentanone	BQL	456	100	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	91.2	100	11/24/2008
Naphthalene	807	91.2	100	11/24/2008
n-Propyl benzene	151	91.2	100	11/24/2008
Styrene	BQL	91.2	100	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	91.2	100	11/24/2008
1,1,2,2-Tetrachloroethane	BQL	91.2	100	11/24/2008
Tetrachloroethene	BQL	91.2	100	11/24/2008
Toluene	BQL	91.2	100	11/24/2008
1,2,3-Trichlorobenzene	BQL	91.2	100	11/24/2008
1,2,4-Trichlorobenzene	BQL	91.2	100	11/24/2008
Trichloroethene	BQL	91.2	100	11/24/2008
1,1,1-Trichloroethane	BQL	91.2	100	11/24/2008
1,1,2-Trichloroethane	BQL	91.2	100	11/24/2008
Trichlorofluoromethane	BQL	91.2	100	11/24/2008
1,2,3-Trichloropropane	BQL	91.2	100	11/24/2008
1,2,4-Trimethylbenzene	BQL	91.2	100	11/24/2008
1,3,5-Trimethylbenzene	BQL	91.2	100	11/24/2008
Vinyl chloride	BQL	91.2	100	11/24/2008
m-,p-Xylene	BQL	182	100	11/24/2008
o-Xylene	BQL	91.2	100	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.79	98
Toluene-d8	10	9.91	99
4-Bromofluorobenzene	10	10.4	104

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: CLP

Reviewed By: gmr

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID G649-85-2A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:40
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 6.59 g
 %Solids: 81.8

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	46.3	1	11/24/2008
Benzene	BQL	4.63	1	11/24/2008
Bromobenzene	BQL	4.63	1	11/24/2008
Bromochloromethane	BQL	4.63	1	11/24/2008
Bromodichloromethane	BQL	4.63	1	11/24/2008
Bromoform	BQL	4.63	1	11/24/2008
Bromomethane	BQL	4.63	1	11/24/2008
2-Butanone	BQL	23.2	1	11/24/2008
n-Butylbenzene	BQL	4.63	1	11/24/2008
sec-Butylbenzene	BQL	4.63	1	11/24/2008
tert-Butylbenzene	BQL	4.63	1	11/24/2008
Carbon disulfide	BQL	4.63	1	11/24/2008
Carbon tetrachloride	BQL	4.63	1	11/24/2008
Chlorobenzene	BQL	4.63	1	11/24/2008
Chloroethane	BQL	4.63	1	11/24/2008
Chloroform	BQL	4.63	1	11/24/2008
Chloromethane	BQL	4.63	1	11/24/2008
2-Chlorotoluene	BQL	4.63	1	11/24/2008
4-Chlorotoluene	BQL	4.63	1	11/24/2008
Dibromochloromethane	BQL	4.63	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	23.2	1	11/24/2008
Dibromomethane	BQL	4.63	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	4.63	1	11/24/2008
1,2-Dichlorobenzene	BQL	4.63	1	11/24/2008
1,3-Dichlorobenzene	BQL	4.63	1	11/24/2008
1,4-Dichlorobenzene	BQL	4.63	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	23.2	1	11/24/2008
1,1-Dichloroethane	BQL	4.63	1	11/24/2008
1,1-Dichloroethene	BQL	4.63	1	11/24/2008
1,2-Dichloroethane	BQL	4.63	1	11/24/2008
cis-1,2-Dichloroethene	BQL	4.63	1	11/24/2008
trans-1,2-dichloroethene	BQL	4.63	1	11/24/2008
1,2-Dichloropropane	BQL	4.63	1	11/24/2008
1,3-Dichloropropane	BQL	4.63	1	11/24/2008
2,2-Dichloropropane	BQL	4.63	1	11/24/2008
1,1-Dichloropropene	BQL	4.63	1	11/24/2008
cis-1,3-Dichloropropene	BQL	4.63	1	11/24/2008
trans-1,3-Dichloropropene	BQL	4.63	1	11/24/2008
Dichlorodifluoromethane	BQL	4.63	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	4.63	1	11/24/2008
Ethylbenzene	BQL	4.63	1	11/24/2008
Hexachlorobutadiene	BQL	4.63	1	11/24/2008
2-Hexanone	BQL	11.6	1	11/24/2008
Iodomethane	BQL	4.63	1	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID G649-85-2A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:40
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 6.59 g
 %Solids: 81.8

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	4.63	1	11/24/2008
4-Isopropyltoluene	BQL	4.63	1	11/24/2008
Methylene chloride	BQL	18.5	1	11/24/2008
4-Methyl-2-pentanone	BQL	11.6	1	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	4.63	1	11/24/2008
Naphthalene	BQL	4.63	1	11/24/2008
n-Propyl benzene	BQL	4.63	1	11/24/2008
Styrene	BQL	4.63	1	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	4.63	1	11/24/2008
1,1,2,2-Tetrachloroethane	BQL	4.63	1	11/24/2008
Tetrachloroethene	BQL	4.63	1	11/24/2008
Toluene	BQL	4.63	1	11/24/2008
1,2,3-Trichlorobenzene	BQL	4.63	1	11/24/2008
1,2,4-Trichlorobenzene	BQL	4.63	1	11/24/2008
Trichloroethene	BQL	4.63	1	11/24/2008
1,1,1-Trichloroethane	BQL	4.63	1	11/24/2008
1,1,2-Trichloroethane	BQL	4.63	1	11/24/2008
Trichlorofluoromethane	BQL	4.63	1	11/24/2008
1,2,3-Trichloropropane	BQL	4.63	1	11/24/2008
1,2,4-Trimethylbenzene	BQL	4.63	1	11/24/2008
1,3,5-Trimethylbenzene	BQL	4.63	1	11/24/2008
Vinyl chloride	BQL	4.63	1	11/24/2008
m-,p-Xylene	BQL	9.27	1	11/24/2008
o-Xylene	BQL	4.63	1	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	50	62.7	125
Toluene-d8	50	58.4	117
4-Bromofluorobenzene	50	48.8	98

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: CL

Reviewed By: gm

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: TT3026-S008
Client Project ID: CTO 002
Lab Sample ID: G649-85-3D
Lab Project ID: G649-85
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 11/21/2008 15:45
Date Received: 11/22/2008
Matrix: Soil
Sample Amount: 5.75 g
%Solids: 79.0

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2750	100	11/24/2008
Benzene	BQL	110	100	11/24/2008
Bromobenzene	BQL	110	100	11/24/2008
Bromochloromethane	BQL	110	100	11/24/2008
Bromodichloromethane	BQL	110	100	11/24/2008
Bromoform	BQL	110	100	11/24/2008
Bromomethane	BQL	110	100	11/24/2008
2-Butanone	BQL	2750	100	11/24/2008
n-Butylbenzene	BQL	110	100	11/24/2008
sec-Butylbenzene	368	110	100	11/24/2008
tert-Butylbenzene	BQL	110	100	11/24/2008
Carbon disulfide	BQL	110	100	11/24/2008
Carbon tetrachloride	BQL	110	100	11/24/2008
Chlorobenzene	BQL	110	100	11/24/2008
Chloroethane	BQL	110	100	11/24/2008
Chloroform	BQL	110	100	11/24/2008
Chloromethane	BQL	110	100	11/24/2008
2-Chlorotoluene	BQL	110	100	11/24/2008
4-Chlorotoluene	BQL	110	100	11/24/2008
Dibromochloromethane	BQL	110	100	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	550	100	11/24/2008
Dibromomethane	BQL	110	100	11/24/2008
1,2-Dibromoethane (EDB)	BQL	110	100	11/24/2008
1,2-Dichlorobenzene	BQL	110	100	11/24/2008
1,3-Dichlorobenzene	BQL	110	100	11/24/2008
1,4-Dichlorobenzene	BQL	110	100	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	550	100	11/24/2008
1,1-Dichloroethane	BQL	110	100	11/24/2008
1,1-Dichloroethene	BQL	110	100	11/24/2008
1,2-Dichloroethane	BQL	110	100	11/24/2008
cis-1,2-Dichloroethene	BQL	110	100	11/24/2008
trans-1,2-dichloroethene	BQL	110	100	11/24/2008
1,2-Dichloropropane	BQL	110	100	11/24/2008
1,3-Dichloropropane	BQL	110	100	11/24/2008
2,2-Dichloropropane	BQL	110	100	11/24/2008
1,1-Dichloropropene	BQL	110	100	11/24/2008
cis-1,3-Dichloropropene	BQL	110	100	11/24/2008
trans-1,3-Dichloropropene	BQL	110	100	11/24/2008
Dichlorodifluoromethane	BQL	550	100	11/24/2008
Diisopropyl ether (DIPE)	BQL	110	100	11/24/2008
Ethylbenzene	BQL	110	100	11/24/2008
Hexachlorobutadiene	BQL	110	100	11/24/2008
2-Hexanone	BQL	550	100	11/24/2008
Iodomethane	BQL	110	100	11/24/2008
Isopropylbenzene	287	110	100	11/24/2008

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: TT3026-S008
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-3D
 Lab Project ID: G649-85
 Report Basis: Dry Weight

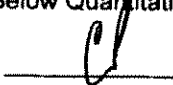
Analyzed By: CLP
 Date Collected: 11/21/2008 15:45
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5.75 g
 %Solids: 79.0

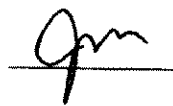
Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
4-Isopropyltoluene	264	110	100	11/24/2008
Methylene chloride	BQL	550	100	11/24/2008
4-Methyl-2-pentanone	BQL	550	100	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	110	100	11/24/2008
Naphthalene	1110	110	100	11/24/2008
n-Propyl benzene	287	110	100	11/24/2008
Styrene	BQL	110	100	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	110	100	11/24/2008
1,1,2,2-Tetrachloroethane	BQL	110	100	11/24/2008
Tetrachloroethene	BQL	110	100	11/24/2008
Toluene	BQL	110	100	11/24/2008
1,2,3-Trichlorobenzene	BQL	110	100	11/24/2008
1,2,4-Trichlorobenzene	BQL	110	100	11/24/2008
Trichloroethene	BQL	110	100	11/24/2008
1,1,1-Trichloroethane	BQL	110	100	11/24/2008
1,1,2-Trichloroethane	BQL	110	100	11/24/2008
Trichlorofluoromethane	BQL	110	100	11/24/2008
1,2,3-Trichloropropane	BQL	110	100	11/24/2008
1,2,4-Trimethylbenzene	500	110	100	11/24/2008
1,3,5-Trimethylbenzene	312	110	100	11/24/2008
Vinyl chloride	BQL	110	100	11/24/2008
m-,p-Xylene	BQL	220	100	11/24/2008
o-Xylene	BQL	110	100	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	10	10.8	108

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID G649-85-4A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:50
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5.65 g
 %Solids: 80.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	55.2	1	11/24/2008
Benzene	BQL	5.52	1	11/24/2008
Bromobenzene	BQL	5.52	1	11/24/2008
Bromochloromethane	BQL	5.52	1	11/24/2008
Bromodichloromethane	BQL	5.52	1	11/24/2008
Bromoform	BQL	5.52	1	11/24/2008
Bromomethane	BQL	5.52	1	11/24/2008
2-Butanone	BQL	27.6	1	11/24/2008
n-Butylbenzene	BQL	5.52	1	11/24/2008
sec-Butylbenzene	8.19	5.52	1	11/24/2008
tert-Butylbenzene	BQL	5.52	1	11/24/2008
Carbon disulfide	BQL	5.52	1	11/24/2008
Carbon tetrachloride	BQL	5.52	1	11/24/2008
Chlorobenzene	BQL	5.52	1	11/24/2008
Chloroethane	BQL	5.52	1	11/24/2008
Chloroform	BQL	5.52	1	11/24/2008
Chloromethane	BQL	5.52	1	11/24/2008
2-Chlorotoluene	BQL	5.52	1	11/24/2008
4-Chlorotoluene	BQL	5.52	1	11/24/2008
Dibromochloromethane	BQL	5.52	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	27.6	1	11/24/2008
Dibromomethane	BQL	5.52	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	5.52	1	11/24/2008
1,2-Dichlorobenzene	BQL	5.52	1	11/24/2008
1,3-Dichlorobenzene	BQL	5.52	1	11/24/2008
1,4-Dichlorobenzene	BQL	5.52	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	27.6	1	11/24/2008
1,1-Dichloroethane	BQL	5.52	1	11/24/2008
1,1-Dichloroethene	BQL	5.52	1	11/24/2008
1,2-Dichloroethane	BQL	5.52	1	11/24/2008
cis-1,2-Dichloroethene	BQL	5.52	1	11/24/2008
trans-1,2-dichloroethene	BQL	5.52	1	11/24/2008
1,2-Dichloropropane	BQL	5.52	1	11/24/2008
1,3-Dichloropropane	BQL	5.52	1	11/24/2008
2,2-Dichloropropane	BQL	5.52	1	11/24/2008
1,1-Dichloropropene	BQL	5.52	1	11/24/2008
cis-1,3-Dichloropropene	BQL	5.52	1	11/24/2008
trans-1,3-Dichloropropene	BQL	5.52	1	11/24/2008
Dichlorodifluoromethane	BQL	5.52	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	5.52	1	11/24/2008
Ethylbenzene	BQL	5.52	1	11/24/2008
Hexachlorobutadiene	BQL	5.52	1	11/24/2008
2-Hexanone	BQL	13.8	1	11/24/2008
Iodomethane	BQL	5.52	1	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID G649-85-4A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

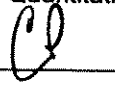
Analyzed By: CLP
 Date Collected: 11-21-2008 15:50
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5.65 g
 %Solids: 80.0

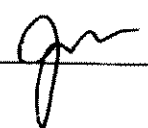
Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	10.7	5.52	1	11/24/2008
4-Isopropyltoluene	7.20	5.52	1	11/24/2008
Methylene chloride	BQL	22.1	1	11/24/2008
4-Methyl-2-pentanone	BQL	13.8	1	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	5.52	1	11/24/2008
Naphthalene	57.4	5.52	1	11/24/2008
n-Propyl benzene	8.89	5.52	1	11/24/2008
Styrene	BQL	5.52	1	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	5.52	1	11/24/2008
1,1,2,2-Tetrachloroethane	BQL	5.52	1	11/24/2008
Tetrachloroethene	BQL	5.52	1	11/24/2008
Toluene	BQL	5.52	1	11/24/2008
1,2,3-Trichlorobenzene	BQL	5.52	1	11/24/2008
1,2,4-Trichlorobenzene	BQL	5.52	1	11/24/2008
Trichloroethene	BQL	5.52	1	11/24/2008
1,1,1-Trichloroethane	BQL	5.52	1	11/24/2008
1,1,2-Trichloroethane	BQL	5.52	1	11/24/2008
Trichlorofluoromethane	BQL	5.52	1	11/24/2008
1,2,3-Trichloropropane	BQL	5.52	1	11/24/2008
1,2,4-Trimethylbenzene	BQL	5.52	1	11/24/2008
1,3,5-Trimethylbenzene	BQL	5.52	1	11/24/2008
Vinyl chloride	BQL	5.52	1	11/24/2008
m-,p-Xylene	BQL	11.0	1	11/24/2008
o-Xylene	BQL	5.52	1	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	50	59.5	119
Toluene-d8	50	58	116
4-Bromofluorobenzene	50	48.1	96

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3028-S010
 Client Project ID: CTO 002
 Lab Sample ID G649-85-5A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:30
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 4.94 g
 %Solids: 62.5

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	80.9	1	11/24/2008
Benzene	BQL	8.09	1	11/24/2008
Bromobenzene	BQL	8.09	1	11/24/2008
Bromochloromethane	BQL	8.09	1	11/24/2008
Bromodichloromethane	BQL	8.09	1	11/24/2008
Bromoform	BQL	8.09	1	11/24/2008
Bromomethane	BQL	8.09	1	11/24/2008
2-Butanone	BQL	40.5	1	11/24/2008
n-Butylbenzene	BQL	8.09	1	11/24/2008
sec-Butylbenzene	BQL	8.09	1	11/24/2008
tert-Butylbenzene	BQL	8.09	1	11/24/2008
Carbon disulfide	BQL	8.09	1	11/24/2008
Carbon tetrachloride	BQL	8.09	1	11/24/2008
Chlorobenzene	BQL	8.09	1	11/24/2008
Chloroethane	BQL	8.09	1	11/24/2008
Chloroform	BQL	8.09	1	11/24/2008
Chloromethane	BQL	8.09	1	11/24/2008
2-Chlorotoluene	BQL	8.09	1	11/24/2008
4-Chlorotoluene	BQL	8.09	1	11/24/2008
Dibromochloromethane	BQL	8.09	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	40.5	1	11/24/2008
Dibromomethane	BQL	8.09	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	8.09	1	11/24/2008
1,2-Dichlorobenzene	BQL	8.09	1	11/24/2008
1,3-Dichlorobenzene	BQL	8.09	1	11/24/2008
1,4-Dichlorobenzene	BQL	8.09	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	40.5	1	11/24/2008
1,1-Dichloroethane	BQL	8.09	1	11/24/2008
1,1-Dichloroethene	BQL	8.09	1	11/24/2008
1,2-Dichloroethane	BQL	8.09	1	11/24/2008
cis-1,2-Dichloroethene	BQL	8.09	1	11/24/2008
trans-1,2-dichloroethene	BQL	8.09	1	11/24/2008
1,2-Dichloropropane	BQL	8.09	1	11/24/2008
1,3-Dichloropropane	BQL	8.09	1	11/24/2008
2,2-Dichloropropane	BQL	8.09	1	11/24/2008
1,1-Dichloropropene	BQL	8.09	1	11/24/2008
cis-1,3-Dichloropropene	BQL	8.09	1	11/24/2008
trans-1,3-Dichloropropene	BQL	8.09	1	11/24/2008
Dichlorodifluoromethane	BQL	8.09	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	8.09	1	11/24/2008
Ethylbenzene	BQL	8.09	1	11/24/2008
Hexachlorobutadiene	BQL	8.09	1	11/24/2008
2-Hexanone	BQL	20.2	1	11/24/2008
Iodomethane	BQL	8.09	1	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S010
 Client Project ID: CTO 002
 Lab Sample ID G649-85-5A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:30
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 4.94 g
 %Solids: 62.5

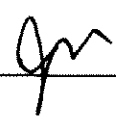
Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	8.09	1	11/24/2008
4-Isopropyltoluene	BQL	8.09	1	11/24/2008
Methylene chloride	BQL	32.4	1	11/24/2008
4-Methyl-2-pentanone	BQL	20.2	1	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	8.09	1	11/24/2008
Naphthalene	BQL	8.09	1	11/24/2008
n-Propyl benzene	BQL	8.09	1	11/24/2008
Styrene	BQL	8.09	1	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	8.09	1	11/24/2008
1,1,1,2,2-Tetrachloroethane	BQL	8.09	1	11/24/2008
Tetrachloroethene	BQL	8.09	1	11/24/2008
Toluene	BQL	8.09	1	11/24/2008
1,2,3-Trichlorobenzene	BQL	8.09	1	11/24/2008
1,2,4-Trichlorobenzene	BQL	8.09	1	11/24/2008
Trichloroethene	BQL	8.09	1	11/24/2008
1,1,1-Trichloroethane	BQL	8.09	1	11/24/2008
1,1,2-Trichloroethane	BQL	8.09	1	11/24/2008
Trichlorofluoromethane	BQL	8.09	1	11/24/2008
1,2,3-Trichloropropane	BQL	8.09	1	11/24/2008
1,2,4-Trimethylbenzene	BQL	8.09	1	11/24/2008
1,3,5-Trimethylbenzene	BQL	8.09	1	11/24/2008
Vinyl chloride	BQL	8.09	1	11/24/2008
m-,p-Xylene	BQL	16.2	1	11/24/2008
o-Xylene	BQL	8.09	1	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	57.8	116
4-Bromofluorobenzene	50	48	96

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: Trip Blanks
Client Project ID: CTO 002
Lab Sample ID G649-85-6A
Lab Project ID: G649-85
Report Basis: 0.0

Analyzed By: CLP
Date Collected: 11-21-2008 16:30
Date Received: 11/22/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	11/24/2008
Benzene	BQL	5.00	1	11/24/2008
Bromobenzene	BQL	5.00	1	11/24/2008
Bromochloromethane	BQL	5.00	1	11/24/2008
Bromodichloromethane	BQL	5.00	1	11/24/2008
Bromoform	BQL	5.00	1	11/24/2008
Bromomethane	BQL	5.00	1	11/24/2008
2-Butanone	BQL	25.0	1	11/24/2008
n-Butylbenzene	BQL	5.00	1	11/24/2008
sec-Butylbenzene	BQL	5.00	1	11/24/2008
tert-Butylbenzene	BQL	5.00	1	11/24/2008
Carbon disulfide	BQL	5.00	1	11/24/2008
Carbon tetrachloride	BQL	5.00	1	11/24/2008
Chlorobenzene	BQL	5.00	1	11/24/2008
Chloroethane	BQL	5.00	1	11/24/2008
Chloroform	BQL	5.00	1	11/24/2008
Chloromethane	BQL	5.00	1	11/24/2008
2-Chlorotoluene	BQL	5.00	1	11/24/2008
4-Chlorotoluene	BQL	5.00	1	11/24/2008
Dibromochloromethane	BQL	5.00	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	25.0	1	11/24/2008
Dibromomethane	BQL	5.00	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	5.00	1	11/24/2008
1,2-Dichlorobenzene	BQL	5.00	1	11/24/2008
1,3-Dichlorobenzene	BQL	5.00	1	11/24/2008
1,4-Dichlorobenzene	BQL	5.00	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	25.0	1	11/24/2008
1,1-Dichloroethane	BQL	5.00	1	11/24/2008
1,1-Dichloroethene	BQL	5.00	1	11/24/2008
1,2-Dichloroethane	BQL	5.00	1	11/24/2008
cis-1,2-Dichloroethene	BQL	5.00	1	11/24/2008
trans-1,2-dichloroethene	BQL	5.00	1	11/24/2008
1,2-Dichloropropane	BQL	5.00	1	11/24/2008
1,3-Dichloropropane	BQL	5.00	1	11/24/2008
2,2-Dichloropropane	BQL	5.00	1	11/24/2008
1,1-Dichloropropene	BQL	5.00	1	11/24/2008
cis-1,3-Dichloropropene	BQL	5.00	1	11/24/2008
trans-1,3-Dichloropropene	BQL	5.00	1	11/24/2008
Dichlorodifluoromethane	BQL	5.00	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	5.00	1	11/24/2008
Ethylbenzene	BQL	5.00	1	11/24/2008
Hexachlorobutadiene	BQL	5.00	1	11/24/2008
2-Hexanone	BQL	12.5	1	11/24/2008
Iodomethane	BQL	5.00	1	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: Trip Blanks
Client Project ID: CTO 002
Lab Sample ID G649-85-6A
Lab Project ID: G649-85
Report Basis: 0.0

Analyzed By: CLP
Date Collected: 11-21-2008 16:30
Date Received: 11/22/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

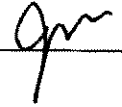
Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	11/24/2008
4-Isopropyltoluene	BQL	5.00	1	11/24/2008
Methylene chloride	BQL	20.0	1	11/24/2008
4-Methyl-2-pentanone	BQL	12.5	1	11/24/2008
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	11/24/2008
Naphthalene	BQL	5.00	1	11/24/2008
n-Propyl benzene	BQL	5.00	1	11/24/2008
Styrene	BQL	5.00	1	11/24/2008
1,1,1,2-Tetrachloroethane	BQL	5.00	1	11/24/2008
1,1,2,2-Tetrachloroethane	BQL	5.00	1	11/24/2008
Tetrachloroethene	BQL	5.00	1	11/24/2008
Toluene	BQL	5.00	1	11/24/2008
1,2,3-Trichlorobenzene	BQL	5.00	1	11/24/2008
1,2,4-Trichlorobenzene	BQL	5.00	1	11/24/2008
Trichloroethene	BQL	5.00	1	11/24/2008
1,1,1-Trichloroethane	BQL	5.00	1	11/24/2008
1,1,2-Trichloroethane	BQL	5.00	1	11/24/2008
Trichlorofluoromethane	BQL	5.00	1	11/24/2008
1,2,3-Trichloropropane	BQL	5.00	1	11/24/2008
1,2,4-Trimethylbenzene	BQL	5.00	1	11/24/2008
1,3,5-Trimethylbenzene	BQL	5.00	1	11/24/2008
Vinyl chloride	BQL	5.00	1	11/24/2008
m-,p-Xylene	BQL	10.0	1	11/24/2008
o-Xylene	BQL	5.00	1	11/24/2008

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	50	64.4	129
Toluene-d8	50	58.2	116
4-Bromofluorobenzene	50	48.3	97

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 



Locations Nationwide

- Alaska
- Hawaii
- Ohio
- Maryland
- New Jersey
- North Carolina
- West Virginia

WWW.LSAC.ORG

090436

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Barringer

42 of 42

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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

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.



Print Date: 10/29/2008

Client Sample ID: **TT3026-S002**
Client Project ID: CTO 002
Lab Sample ID: G649-77-2D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:30
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.03
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	432	16.4	MG/KG	2	29-Oct-08 10:28

Surrogates

OTP	67.9	40-140	%	2	29-Oct-08 10:28
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Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC6
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 32.1
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: **TT3026-S004**
Client Project ID: CTO 002
Lab Sample ID: G649-77-4D
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:18
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 83.19
Basis: Dry

Results by 8015DRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics	269	7.49	MG/KG	1	29-Oct-08 7:09

Surrogates

OTP	61	40-140	%	1	29-Oct-08 7:09
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Batch Information

Analytical Batch: EP102808
Analytical Method: 8015DRO
Instrument: GC6
Analyst: EAW

Prep Batch:
Prep Method: 3541
Prep Date/Time:
Initial Prep Wt./Vol.: 32.09
Prep Extract Vol: 10



Print Date: 10/29/2008

Client Sample ID: **TT3026-S001**
Client Project ID: CTO 002
Lab Sample ID: G649-77-1A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:11
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 81.52
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	BQL	5.76	MG/KG	1	28-Oct-08 13:42

Surrogates

BFB	100	70-130	%	1	28-Oct-08 13:42
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Batch Information

Analytical Batch: VP102808
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 6.39
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S003
Client Project ID: CTO 002
Lab Sample ID: G649-77-3A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 14:25
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 82.43
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	7.11	6.08	MG/KG	1	29-Oct-08 12:45

Surrogates

BFB	100	70-130	%	1	29-Oct-08 12:45
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Batch Information

Analytical Batch: VP102908
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 5.99
Prep Extract Vol: 5



Print Date: 10/29/2008

Client Sample ID: TT3026-S005
Client Project ID: CTO 002
Lab Sample ID: G649-77-5A
Lab Project ID: G649-77

Collection Date: 24-Oct-08 13:58
Received Date: 28-Oct-08
Matrix: SOIL
Solids: 76.65
Basis: Dry

Results by 8015GRO

<u>Parameter</u>	<u>Result</u>	<u>RL/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics	12.3	6.04	MG/KG	1	29-Oct-08 13:38

Surrogates

BFB	101	70-130	%	1	29-Oct-08 13:38
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Batch Information

Analytical Batch: VP102908
Analytical Method: 8015GRO
Instrument: GC4
Analyst: DVG

Prep Batch:
Prep Method: 5035
Prep Date/Time:
Initial Prep Wt./Vol.: 6.48
Prep Extract Vol: 5

List of Reporting Abbreviations
and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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

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.

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S007
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 18:58 - 11/25/08 19:27
Dry Weight	81.8
Dilution Factor	1 - 1
Initial weight (g)	13.57
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	111		40	140
Aromatic (ortho-terphenyl)	51.0		40	140
Fractionation 1 (2-bromonaphthalene)	54.7		40	140
Fractionation 2 (2-fluorobiphenyl)	53.0		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-2G	Lab Info: G649-85-2G
Aliphatic: EP112508/017F2301.D	Aromatic: EP112508/018F2401.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S009
Sample Matrix	SOIL
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 20:52 - 11/25/08 21:20
Dry Weight	80.0
Dilution Factor	1 - 1
Initial weight (g)	12.86
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	70.7	10.0	
C19-C36 Aliphatics	11.0	10.0	
C11-C22 Aromatics	23.4	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	102		40	140
Aromatic (ortho-terphenyl)	99.2		40	140
Fractionation 1 (2-bromonaphthalene)	122		40	140
Fractionation 2 (2-fluorobiphenyl)	116		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G649-85-4G	Lab Info: G649-85-4G
Aliphatic: EP112508/021F2701.D	Aromatic: EP112508/022F2801.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/22/08

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	17.73	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	10.65	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	10.39	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 11/25/08
11/25/08Filenames: ep112508/001f1601.d
ep112508/002f1701.d

Calibration Check

Range	Levels		%Difference if CF %Drift if LR	Limits
	(µg/L)	(mg/Kg)		
C9-C18 Aliphatics	100	16.7	22.3	≤±25%
C19-C36 Aliphatics	100	16.7	18.4	≤±25%
C11-C22 Aromatics	100	16.7	13.2	≤±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

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

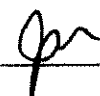
Sample Information	
Sample Identification	TT3026-S006
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 11:15 - 11/25/08 11:15
Dry Weight	83.4
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	64.5	10.0		
C ₉ -C ₁₀ Aromatics**	141	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	103		70	130
Surrogate % Recovery - FID	118		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: g649-85-1e	Lab Info: g649-85-1e
FID Info: VP112508/007F0101.D	PID Info: VP112508/007R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S008
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 03:26 - 11/25/08 03:26
Dry Weight	79.0
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	29.4	10.0		
C ₉ -C ₁₀ Aromatics**	47.4	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	99.0		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: g649-85-3e	Lab Info: g649-85-3e
FID Info: VP112408/040F0101.D	PID Info: VP112408/040R0101.D

Reviewed By: *gmn*

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Osage of VirginiaProject Name: CTO 002

Sample Information	
Sample Identification	TT3026-S010
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/21/08
Date Received	11/22/08
Date Extracted	11/24/08
Date Analyzed	11/25/08 04:19 - 11/25/08 04:19
Dry Weight	62.5
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	95.7		70	130
Surrogate % Recovery - FID	96.8		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: g649-85-5e	Lab Info: g649-85-5e
FID Info: VP112408/042F0101.D	PID Info: VP112408/042R0101.D

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 11/18/08PID Initial Calibration Date: 11/18/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	($\mu\text{g/L}$)	(mg/Kg)	($\mu\text{g/L}$)	(mg/Kg)	($\mu\text{g/L}$)	(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 ($\mu\text{g/L}$)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 11/24/08Filename: VP112408/015F0101.d

Calibration Check

Range	Levels ($\mu\text{g/L}$)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	6.9	$\pm 25\%$
C ₉ -C ₁₂ Aliphatics	200	16	1.1	$\pm 25\%$
C ₉ -C ₁₀ Aromatics	200	16	9.6	$\pm 25\%$

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:

11/18/08

PID Initial Calibration Date:

11/18/08

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	4.30	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	14.21	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date:

11/25/08

Filename:

VP112508/002F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	10.7	±25%
C ₉ -C ₁₂ Aliphatics	200	16	3.1	±25%
C ₉ -C ₁₀ Aromatics	200	16	4.8	±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

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S006
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-1H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.18 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:35
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 83.41

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	361	1	11/25/2008
Acenaphthylene	BQL	361	1	11/25/2008
Anthracene	BQL	361	1	11/25/2008
Benzo[a]anthracene	BQL	361	1	11/25/2008
Benzo[a]pyrene	BQL	361	1	11/25/2008
Benzo[b]fluoranthene	BQL	361	1	11/25/2008
Benzo[g,h,i]perylene	BQL	361	1	11/25/2008
Benzo[k]fluoranthene	BQL	361	1	11/25/2008
Benzoic Acid	BQL	723	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	361	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	361	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	361	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	361	1	11/25/2008
4-bromophenyl phenyl ether	BQL	361	1	11/25/2008
Butylbenzylphthalate	BQL	361	1	11/25/2008
2-Chloronaphthalene	BQL	361	1	11/25/2008
2-Chlorophenol	BQL	361	1	11/25/2008
4-Chloro-3-methylphenol	BQL	361	1	11/25/2008
4-Chloroaniline	BQL	1810	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	361	1	11/25/2008
Chrysene	BQL	361	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	361	1	11/25/2008
Dibenzofuran	BQL	361	1	11/25/2008
Di-n-Butylphthalate	BQL	361	1	11/25/2008
1,2-Dichlorobenzene	BQL	361	1	11/25/2008
1,3-Dichlorobenzene	BQL	361	1	11/25/2008
1,4-Dichlorobenzene	BQL	361	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	723	1	11/25/2008
2,4-Dichlorophenol	BQL	361	1	11/25/2008
Diethylphthalate	BQL	361	1	11/25/2008
Dimethylphthalate	BQL	361	1	11/25/2008
2,4-Dimethylphenol	BQL	361	1	11/25/2008
Di-n-octylphthalate	BQL	361	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1810	1	11/25/2008
2,4-Dinitrophenol	BQL	1810	1	11/25/2008
2,4-Dinitrotoluene	BQL	361	1	11/25/2008
2,6-Dinitrotoluene	BQL	361	1	11/25/2008
Diphenylamine *	BQL	361	1	11/25/2008
Fluoranthene	BQL	361	1	11/25/2008
Fluorene	444	361	1	11/25/2008
Hexachlorobenzene	BQL	361	1	11/25/2008
Hexachlorobutadiene	BQL	361	1	11/25/2008
Hexachlorocyclopentadiene	BQL	723	1	11/25/2008
Hexachloroethane	BQL	361	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	361	1	11/25/2008
Isophorone	BQL	361	1	11/25/2008
2-Methylnaphthalene	3150	361	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-2H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.96 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:40
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 81.76

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	383	1	11/25/2008
Acenaphthylene	BQL	383	1	11/25/2008
Anthracene	BQL	383	1	11/25/2008
Benzo[a]anthracene	BQL	383	1	11/25/2008
Benzo[a]pyrene	BQL	383	1	11/25/2008
Benzo[b]fluoranthene	BQL	383	1	11/25/2008
Benzo[g,h,i]perylene	BQL	383	1	11/25/2008
Benzo[k]fluoranthene	BQL	383	1	11/25/2008
Benzoic Acid	BQL	765	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	383	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	383	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	383	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	383	1	11/25/2008
4-bromophenyl phenyl ether	BQL	383	1	11/25/2008
Butylbenzylphthalate	BQL	383	1	11/25/2008
2-Chloronaphthalene	BQL	383	1	11/25/2008
2-Chlorophenol	BQL	383	1	11/25/2008
4-Chloro-3-methylphenol	BQL	383	1	11/25/2008
4-Chloroaniline	BQL	1910	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	383	1	11/25/2008
Chrysene	BQL	383	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	383	1	11/25/2008
Dibenzofuran	BQL	383	1	11/25/2008
Di-n-Butylphthalate	BQL	383	1	11/25/2008
1,2-Dichlorobenzene	BQL	383	1	11/25/2008
1,3-Dichlorobenzene	BQL	383	1	11/25/2008
1,4-Dichlorobenzene	BQL	383	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	765	1	11/25/2008
2,4-Dichlorophenol	BQL	383	1	11/25/2008
Diethylphthalate	BQL	383	1	11/25/2008
Dimethylphthalate	BQL	383	1	11/25/2008
2,4-Dimethylphenol	BQL	383	1	11/25/2008
Di-n-octylphthalate	BQL	383	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1910	1	11/25/2008
2,4-Dinitrophenol	BQL	1910	1	11/25/2008
2,4-Dinitrotoluene	BQL	383	1	11/25/2008
2,6-Dinitrotoluene	BQL	383	1	11/25/2008
Diphenylamine *	BQL	383	1	11/25/2008
Fluoranthene	BQL	383	1	11/25/2008
Fluorene	BQL	383	1	11/25/2008
Hexachlorobenzene	BQL	383	1	11/25/2008
Hexachlorobutadiene	BQL	383	1	11/25/2008
Hexachlorocyclopentadiene	BQL	765	1	11/25/2008
Hexachloroethane	BQL	383	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	383	1	11/25/2008
Isophorone	BQL	383	1	11/25/2008
2-Methylnaphthalene	BQL	383	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S008
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-3J
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 33.38 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:45
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 78.98

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	379	1	11/25/2008
Acenaphthylene	BQL	379	1	11/25/2008
Anthracene	BQL	379	1	11/25/2008
Benzo[a]anthracene	BQL	379	1	11/25/2008
Benzo[a]pyrene	BQL	379	1	11/25/2008
Benzo[b]fluoranthene	BQL	379	1	11/25/2008
Benzo[g,h,i]perylene	BQL	379	1	11/25/2008
Benzo[k]fluoranthene	BQL	379	1	11/25/2008
Benzoic Acid	BQL	759	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	379	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	379	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	379	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	379	1	11/25/2008
4-bromophenyl phenyl ether	BQL	379	1	11/25/2008
Butylbenzylphthalate	BQL	379	1	11/25/2008
2-Chloronaphthalene	BQL	379	1	11/25/2008
2-Chlorophenol	BQL	379	1	11/25/2008
4-Chloro-3-methylphenol	BQL	379	1	11/25/2008
4-Chloroaniline	BQL	1900	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	379	1	11/25/2008
Chrysene	BQL	379	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	379	1	11/25/2008
Dibenzofuran	BQL	379	1	11/25/2008
Di-n-Butylphthalate	BQL	379	1	11/25/2008
1,2-Dichlorobenzene	BQL	379	1	11/25/2008
1,3-Dichlorobenzene	BQL	379	1	11/25/2008
1,4-Dichlorobenzene	BQL	379	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	759	1	11/25/2008
2,4-Dichlorophenol	BQL	379	1	11/25/2008
Diethylphthalate	BQL	379	1	11/25/2008
Dimethylphthalate	BQL	379	1	11/25/2008
2,4-Dimethylphenol	BQL	379	1	11/25/2008
Di-n-octylphthalate	BQL	379	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1900	1	11/25/2008
2,4-Dinitrophenol	BQL	1900	1	11/25/2008
2,4-Dinitrotoluene	BQL	379	1	11/25/2008
2,6-Dinitrotoluene	BQL	379	1	11/25/2008
Diphenylamine *	BQL	379	1	11/25/2008
Fluoranthene	BQL	379	1	11/25/2008
Fluorene	BQL	379	1	11/25/2008
Hexachlorobenzene	BQL	379	1	11/25/2008
Hexachlorobutadiene	BQL	379	1	11/25/2008
Hexachlorocyclopentadiene	BQL	759	1	11/25/2008
Hexachloroethane	BQL	379	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	379	1	11/25/2008
Isophorone	BQL	379	1	11/25/2008
2-Methylnaphthalene	1300	379	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-4H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 32.73 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:50
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 79.96

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	382	1	11/25/2008
Acenaphthylene	BQL	382	1	11/25/2008
Anthracene	BQL	382	1	11/25/2008
Benzo[a]anthracene	BQL	382	1	11/25/2008
Benzo[a]pyrene	BQL	382	1	11/25/2008
Benzo[b]fluoranthene	BQL	382	1	11/25/2008
Benzo[g,h,i]perylene	BQL	382	1	11/25/2008
Benzo[k]fluoranthene	BQL	382	1	11/25/2008
Benzoic Acid	BQL	764	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	382	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	382	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	382	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	382	1	11/25/2008
4-bromophenyl phenyl ether	BQL	382	1	11/25/2008
Butylbenzylphthalate	BQL	382	1	11/25/2008
2-Chloronaphthalene	BQL	382	1	11/25/2008
2-Chlorophenol	BQL	382	1	11/25/2008
4-Chloro-3-methylphenol	BQL	382	1	11/25/2008
4-Chloroaniline	BQL	1910	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	382	1	11/25/2008
Chrysene	BQL	382	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	382	1	11/25/2008
Dibenzofuran	BQL	382	1	11/25/2008
Di-n-Butylphthalate	BQL	382	1	11/25/2008
1,2-Dichlorobenzene	BQL	382	1	11/25/2008
1,3-Dichlorobenzene	BQL	382	1	11/25/2008
1,4-Dichlorobenzene	BQL	382	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	764	1	11/25/2008
2,4-Dichlorophenol	BQL	382	1	11/25/2008
Diethylphthalate	BQL	382	1	11/25/2008
Dimethylphthalate	BQL	382	1	11/25/2008
2,4-Dimethylphenol	BQL	382	1	11/25/2008
Di-n-octylphthalate	BQL	382	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	1910	1	11/25/2008
2,4-Dinitrophenol	BQL	1910	1	11/25/2008
2,4-Dinitrotoluene	BQL	382	1	11/25/2008
2,6-Dinitrotoluene	BQL	382	1	11/25/2008
Diphenylamine *	BQL	382	1	11/25/2008
Fluoranthene	BQL	382	1	11/25/2008
Fluorene	BQL	382	1	11/25/2008
Hexachlorobenzene	BQL	382	1	11/25/2008
Hexachlorobutadiene	BQL	382	1	11/25/2008
Hexachlorocyclopentadiene	BQL	764	1	11/25/2008
Hexachloroethane	BQL	382	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	382	1	11/25/2008
Isophorone	BQL	382	1	11/25/2008
2-Methylnaphthalene	BQL	382	1	11/25/2008

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: TT3026-S010
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-5H
 Lab Project ID: G649-85
 Report Basis: Dry weight
 Initial Weight: 31.11 g

Analyzed By: DES
 Date Collected: 11/21/2008 15:30
 Date Received: 11/22/2008
 Date Extracted: 11/24/2008
 Matrix: Soil
 % Solids: 62.54

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	514	1	11/25/2008
Acenaphthylene	BQL	514	1	11/25/2008
Anthracene	BQL	514	1	11/25/2008
Benzo[a]anthracene	BQL	514	1	11/25/2008
Benzo[a]pyrene	BQL	514	1	11/25/2008
Benzo[b]fluoranthene	BQL	514	1	11/25/2008
Benzo[g,h,i]perylene	BQL	514	1	11/25/2008
Benzo[k]fluoranthene	BQL	514	1	11/25/2008
Benzoic Acid	BQL	1030	1	11/25/2008
Bis(2-chloroethoxy)methane	BQL	514	1	11/25/2008
Bis(2-chloroethyl)ether	BQL	514	1	11/25/2008
Bis(2-chloroisopropyl)ether	BQL	514	1	11/25/2008
Bis(2-ethylhexyl)phthalate	BQL	514	1	11/25/2008
4-bromophenyl phenyl ether	BQL	514	1	11/25/2008
Butylbenzylphthalate	BQL	514	1	11/25/2008
2-Chloronaphthalene	BQL	514	1	11/25/2008
2-Chlorophenol	BQL	514	1	11/25/2008
4-Chloro-3-methylphenol	BQL	514	1	11/25/2008
4-Chloroaniline	BQL	2570	1	11/25/2008
4-Chlorophenyl phenyl ether	BQL	514	1	11/25/2008
Chrysene	BQL	514	1	11/25/2008
Dibenzo[a,h]anthracene	BQL	514	1	11/25/2008
Dibenzofuran	BQL	514	1	11/25/2008
Di-n-Butylphthalate	BQL	514	1	11/25/2008
1,2-Dichlorobenzene	BQL	514	1	11/25/2008
1,3-Dichlorobenzene	BQL	514	1	11/25/2008
1,4-Dichlorobenzene	BQL	514	1	11/25/2008
3,3'-Dichlorobenzidine	BQL	1030	1	11/25/2008
2,4-Dichlorophenol	BQL	514	1	11/25/2008
Diethylphthalate	BQL	514	1	11/25/2008
Dimethylphthalate	BQL	514	1	11/25/2008
2,4-Dimethylphenol	BQL	514	1	11/25/2008
Di-n-octylphthalate	BQL	514	1	11/25/2008
4,6-Dinitro-2-methylphenol	BQL	2570	1	11/25/2008
2,4-Dinitrophenol	BQL	2570	1	11/25/2008
2,4-Dinitrotoluene	BQL	514	1	11/25/2008
2,6-Dinitrotoluene	BQL	514	1	11/25/2008
Diphenylamine *	BQL	514	1	11/25/2008
Fluoranthene	BQL	514	1	11/25/2008
Fluorene	BQL	514	1	11/25/2008
Hexachlorobenzene	BQL	514	1	11/25/2008
Hexachlorobutadiene	BQL	514	1	11/25/2008
Hexachlorocyclopentadiene	BQL	1030	1	11/25/2008
Hexachloroethane	BQL	514	1	11/25/2008
Indeno(1,2,3-c,d)pyrene	BQL	514	1	11/25/2008
Isophorone	BQL	514	1	11/25/2008
2-Methylnaphthalene	BQL	514	1	11/25/2008

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: TT3026-S006
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-1D
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11/21/2008 15:35
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 6.57 g
 %Solids: 83.4

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2280	100	11/24/2008
Benzene	BQL	91.2	100	11/24/2008
Bromobenzene	BQL	91.2	100	11/24/2008
Bromochloromethane	BQL	91.2	100	11/24/2008
Bromodichloromethane	BQL	91.2	100	11/24/2008
Bromoform	BQL	91.2	100	11/24/2008
Bromomethane	BQL	91.2	100	11/24/2008
2-Butanone	BQL	2280	100	11/24/2008
n-Butylbenzene	291	91.2	100	11/24/2008
sec-Butylbenzene	368	91.2	100	11/24/2008
tert-Butylbenzene	BQL	91.2	100	11/24/2008
Carbon disulfide	BQL	91.2	100	11/24/2008
Carbon tetrachloride	BQL	91.2	100	11/24/2008
Chlorobenzene	BQL	91.2	100	11/24/2008
Chloroethane	BQL	91.2	100	11/24/2008
Chloroform	BQL	91.2	100	11/24/2008
Chloromethane	BQL	91.2	100	11/24/2008
2-Chlorotoluene	BQL	91.2	100	11/24/2008
4-Chlorotoluene	BQL	91.2	100	11/24/2008
Dibromochloromethane	BQL	91.2	100	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	456	100	11/24/2008
Dibromomethane	BQL	91.2	100	11/24/2008
1,2-Dibromoethane (EDB)	BQL	91.2	100	11/24/2008
1,2-Dichlorobenzene	BQL	91.2	100	11/24/2008
1,3-Dichlorobenzene	BQL	91.2	100	11/24/2008
1,4-Dichlorobenzene	BQL	91.2	100	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	456	100	11/24/2008
1,1-Dichloroethane	BQL	91.2	100	11/24/2008
1,1-Dichloroethene	BQL	91.2	100	11/24/2008
1,2-Dichloroethane	BQL	91.2	100	11/24/2008
cis-1,2-Dichloroethene	BQL	91.2	100	11/24/2008
trans-1,2-dichloroethene	BQL	91.2	100	11/24/2008
1,2-Dichloropropane	BQL	91.2	100	11/24/2008
1,3-Dichloropropane	BQL	91.2	100	11/24/2008
2,2-Dichloropropane	BQL	91.2	100	11/24/2008
1,1-Dichloropropene	BQL	91.2	100	11/24/2008
cis-1,3-Dichloropropene	BQL	91.2	100	11/24/2008
trans-1,3-Dichloropropene	BQL	91.2	100	11/24/2008
Dichlorodifluoromethane	BQL	456	100	11/24/2008
Diisopropyl ether (DIPE)	BQL	91.2	100	11/24/2008
Ethylbenzene	BQL	91.2	100	11/24/2008
Hexachlorobutadiene	BQL	91.2	100	11/24/2008
2-Hexanone	BQL	456	100	11/24/2008
Iodomethane	BQL	91.2	100	11/24/2008
Isopropylbenzene	121	91.2	100	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S007
 Client Project ID: CTO 002
 Lab Sample ID G649-85-2A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:40
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 6.59 g
 %Solids: 81.8

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	46.3	1	11/24/2008
Benzene	BQL	4.63	1	11/24/2008
Bromobenzene	BQL	4.63	1	11/24/2008
Bromochloromethane	BQL	4.63	1	11/24/2008
Bromodichloromethane	BQL	4.63	1	11/24/2008
Bromoform	BQL	4.63	1	11/24/2008
Bromomethane	BQL	4.63	1	11/24/2008
2-Butanone	BQL	23.2	1	11/24/2008
n-Butylbenzene	BQL	4.63	1	11/24/2008
sec-Butylbenzene	BQL	4.63	1	11/24/2008
tert-Butylbenzene	BQL	4.63	1	11/24/2008
Carbon disulfide	BQL	4.63	1	11/24/2008
Carbon tetrachloride	BQL	4.63	1	11/24/2008
Chlorobenzene	BQL	4.63	1	11/24/2008
Chloroethane	BQL	4.63	1	11/24/2008
Chloroform	BQL	4.63	1	11/24/2008
Chloromethane	BQL	4.63	1	11/24/2008
2-Chlorotoluene	BQL	4.63	1	11/24/2008
4-Chlorotoluene	BQL	4.63	1	11/24/2008
Dibromochloromethane	BQL	4.63	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	23.2	1	11/24/2008
Dibromomethane	BQL	4.63	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	4.63	1	11/24/2008
1,2-Dichlorobenzene	BQL	4.63	1	11/24/2008
1,3-Dichlorobenzene	BQL	4.63	1	11/24/2008
1,4-Dichlorobenzene	BQL	4.63	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	23.2	1	11/24/2008
1,1-Dichloroethane	BQL	4.63	1	11/24/2008
1,1-Dichloroethene	BQL	4.63	1	11/24/2008
1,2-Dichloroethane	BQL	4.63	1	11/24/2008
cis-1,2-Dichloroethene	BQL	4.63	1	11/24/2008
trans-1,2-dichloroethene	BQL	4.63	1	11/24/2008
1,2-Dichloropropane	BQL	4.63	1	11/24/2008
1,3-Dichloropropane	BQL	4.63	1	11/24/2008
2,2-Dichloropropane	BQL	4.63	1	11/24/2008
1,1-Dichloropropene	BQL	4.63	1	11/24/2008
cis-1,3-Dichloropropene	BQL	4.63	1	11/24/2008
trans-1,3-Dichloropropene	BQL	4.63	1	11/24/2008
Dichlorodifluoromethane	BQL	4.63	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	4.63	1	11/24/2008
Ethylbenzene	BQL	4.63	1	11/24/2008
Hexachlorobutadiene	BQL	4.63	1	11/24/2008
2-Hexanone	BQL	11.6	1	11/24/2008
Iodomethane	BQL	4.63	1	11/24/2008

SGS ENVIRONMENTAL SERVICES, INC.

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: TT3026-S008
 Client Project ID: CTO 002
 Lab Sample ID: G649-85-3D
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11/21/2008 15:45
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5.75 g
 %Solids: 79.0

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2750	100	11/24/2008
Benzene	BQL	110	100	11/24/2008
Bromobenzene	BQL	110	100	11/24/2008
Bromochloromethane	BQL	110	100	11/24/2008
Bromodichloromethane	BQL	110	100	11/24/2008
Bromoform	BQL	110	100	11/24/2008
Bromomethane	BQL	110	100	11/24/2008
2-Butanone	BQL	2750	100	11/24/2008
n-Butylbenzene	BQL	110	100	11/24/2008
sec-Butylbenzene	368	110	100	11/24/2008
tert-Butylbenzene	BQL	110	100	11/24/2008
Carbon disulfide	BQL	110	100	11/24/2008
Carbon tetrachloride	BQL	110	100	11/24/2008
Chlorobenzene	BQL	110	100	11/24/2008
Chloroethane	BQL	110	100	11/24/2008
Chloroform	BQL	110	100	11/24/2008
Chloromethane	BQL	110	100	11/24/2008
2-Chlorotoluene	BQL	110	100	11/24/2008
4-Chlorotoluene	BQL	110	100	11/24/2008
Dibromochloromethane	BQL	110	100	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	550	100	11/24/2008
Dibromomethane	BQL	110	100	11/24/2008
1,2-Dibromoethane (EDB)	BQL	110	100	11/24/2008
1,2-Dichlorobenzene	BQL	110	100	11/24/2008
1,3-Dichlorobenzene	BQL	110	100	11/24/2008
1,4-Dichlorobenzene	BQL	110	100	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	550	100	11/24/2008
1,1-Dichloroethane	BQL	110	100	11/24/2008
1,1-Dichloroethene	BQL	110	100	11/24/2008
1,2-Dichloroethane	BQL	110	100	11/24/2008
cis-1,2-Dichloroethene	BQL	110	100	11/24/2008
trans-1,2-dichloroethene	BQL	110	100	11/24/2008
1,2-Dichloropropane	BQL	110	100	11/24/2008
1,3-Dichloropropane	BQL	110	100	11/24/2008
2,2-Dichloropropane	BQL	110	100	11/24/2008
1,1-Dichloropropene	BQL	110	100	11/24/2008
cis-1,3-Dichloropropene	BQL	110	100	11/24/2008
trans-1,3-Dichloropropene	BQL	110	100	11/24/2008
Dichlorodifluoromethane	BQL	550	100	11/24/2008
Diisopropyl ether (DIPE)	BQL	110	100	11/24/2008
Ethylbenzene	BQL	110	100	11/24/2008
Hexachlorobutadiene	BQL	110	100	11/24/2008
2-Hexanone	BQL	550	100	11/24/2008
Iodomethane	BQL	110	100	11/24/2008
Isopropylbenzene	287	110	100	11/24/2008

SGS ENVIRONMENTAL SERVICES, INC.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: TT3026-S009
 Client Project ID: CTO 002
 Lab Sample ID G649-85-4A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:50
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5.65 g
 %Solids: 80.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	55.2	1	11/24/2008
Benzene	BQL	5.52	1	11/24/2008
Bromobenzene	BQL	5.52	1	11/24/2008
Bromochloromethane	BQL	5.52	1	11/24/2008
Bromodichloromethane	BQL	5.52	1	11/24/2008
Bromoform	BQL	5.52	1	11/24/2008
Bromomethane	BQL	5.52	1	11/24/2008
2-Butanone	BQL	27.6	1	11/24/2008
n-Butylbenzene	BQL	5.52	1	11/24/2008
sec-Butylbenzene	8.19	5.52	1	11/24/2008
tert-Butylbenzene	BQL	5.52	1	11/24/2008
Carbon disulfide	BQL	5.52	1	11/24/2008
Carbon tetrachloride	BQL	5.52	1	11/24/2008
Chlorobenzene	BQL	5.52	1	11/24/2008
Chloroethane	BQL	5.52	1	11/24/2008
Chloroform	BQL	5.52	1	11/24/2008
Chloromethane	BQL	5.52	1	11/24/2008
2-Chlorotoluene	BQL	5.52	1	11/24/2008
4-Chlorotoluene	BQL	5.52	1	11/24/2008
Dibromochloromethane	BQL	5.52	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	27.6	1	11/24/2008
Dibromomethane	BQL	5.52	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	5.52	1	11/24/2008
1,2-Dichlorobenzene	BQL	5.52	1	11/24/2008
1,3-Dichlorobenzene	BQL	5.52	1	11/24/2008
1,4-Dichlorobenzene	BQL	5.52	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	27.6	1	11/24/2008
1,1-Dichloroethane	BQL	5.52	1	11/24/2008
1,1-Dichloroethene	BQL	5.52	1	11/24/2008
1,2-Dichloroethane	BQL	5.52	1	11/24/2008
cis-1,2-Dichloroethene	BQL	5.52	1	11/24/2008
trans-1,2-dichloroethene	BQL	5.52	1	11/24/2008
1,2-Dichloropropane	BQL	5.52	1	11/24/2008
1,3-Dichloropropane	BQL	5.52	1	11/24/2008
2,2-Dichloropropane	BQL	5.52	1	11/24/2008
1,1-Dichloropropene	BQL	5.52	1	11/24/2008
cis-1,3-Dichloropropene	BQL	5.52	1	11/24/2008
trans-1,3-Dichloropropene	BQL	5.52	1	11/24/2008
Dichlorodifluoromethane	BQL	5.52	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	5.52	1	11/24/2008
Ethylbenzene	BQL	5.52	1	11/24/2008
Hexachlorobutadiene	BQL	5.52	1	11/24/2008
2-Hexanone	BQL	13.8	1	11/24/2008
Iodomethane	BQL	5.52	1	11/24/2008

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: TT3026-S010
 Client Project ID: CTO 002
 Lab Sample ID G649-85-5A
 Lab Project ID: G649-85
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 11-21-2008 15:30
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 4.94 g
 %Solids: 62.5

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	80.9	1	11/24/2008
Benzene	BQL	8.09	1	11/24/2008
Bromobenzene	BQL	8.09	1	11/24/2008
Bromochloromethane	BQL	8.09	1	11/24/2008
Bromodichloromethane	BQL	8.09	1	11/24/2008
Bromoform	BQL	8.09	1	11/24/2008
Bromomethane	BQL	8.09	1	11/24/2008
2-Butanone	BQL	40.5	1	11/24/2008
n-Butylbenzene	BQL	8.09	1	11/24/2008
sec-Butylbenzene	BQL	8.09	1	11/24/2008
tert-Butylbenzene	BQL	8.09	1	11/24/2008
Carbon disulfide	BQL	8.09	1	11/24/2008
Carbon tetrachloride	BQL	8.09	1	11/24/2008
Chlorobenzene	BQL	8.09	1	11/24/2008
Chloroethane	BQL	8.09	1	11/24/2008
Chloroform	BQL	8.09	1	11/24/2008
Chloromethane	BQL	8.09	1	11/24/2008
2-Chlorotoluene	BQL	8.09	1	11/24/2008
4-Chlorotoluene	BQL	8.09	1	11/24/2008
Dibromochloromethane	BQL	8.09	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	40.5	1	11/24/2008
Dibromomethane	BQL	8.09	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	8.09	1	11/24/2008
1,2-Dichlorobenzene	BQL	8.09	1	11/24/2008
1,3-Dichlorobenzene	BQL	8.09	1	11/24/2008
1,4-Dichlorobenzene	BQL	8.09	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	40.5	1	11/24/2008
1,1-Dichloroethane	BQL	8.09	1	11/24/2008
1,1-Dichloroethene	BQL	8.09	1	11/24/2008
1,2-Dichloroethane	BQL	8.09	1	11/24/2008
cis-1,2-Dichloroethene	BQL	8.09	1	11/24/2008
trans-1,2-dichloroethene	BQL	8.09	1	11/24/2008
1,2-Dichloropropane	BQL	8.09	1	11/24/2008
1,3-Dichloropropane	BQL	8.09	1	11/24/2008
2,2-Dichloropropane	BQL	8.09	1	11/24/2008
1,1-Dichloropropene	BQL	8.09	1	11/24/2008
cis-1,3-Dichloropropene	BQL	8.09	1	11/24/2008
trans-1,3-Dichloropropene	BQL	8.09	1	11/24/2008
Dichlorodifluoromethane	BQL	8.09	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	8.09	1	11/24/2008
Ethylbenzene	BQL	8.09	1	11/24/2008
Hexachlorobutadiene	BQL	8.09	1	11/24/2008
2-Hexanone	BQL	20.2	1	11/24/2008
Iodomethane	BQL	8.09	1	11/24/2008

SGS ENVIRONMENTAL SERVICES, INC.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blanks
 Client Project ID: CTO 002
 Lab Sample ID G649-85-6A
 Lab Project ID: G649-85
 Report Basis: 0.0

Analyzed By: CLP
 Date Collected: 11-21-2008 16:30
 Date Received: 11/22/2008
 Matrix: Soil
 Sample Amount: 5 g
 %Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	11/24/2008
Benzene	BQL	5.00	1	11/24/2008
Bromobenzene	BQL	5.00	1	11/24/2008
Bromochloromethane	BQL	5.00	1	11/24/2008
Bromodichloromethane	BQL	5.00	1	11/24/2008
Bromoform	BQL	5.00	1	11/24/2008
Bromomethane	BQL	5.00	1	11/24/2008
2-Butanone	BQL	25.0	1	11/24/2008
n-Butylbenzene	BQL	5.00	1	11/24/2008
sec-Butylbenzene	BQL	5.00	1	11/24/2008
tert-Butylbenzene	BQL	5.00	1	11/24/2008
Carbon disulfide	BQL	5.00	1	11/24/2008
Carbon tetrachloride	BQL	5.00	1	11/24/2008
Chlorobenzene	BQL	5.00	1	11/24/2008
Chloroethane	BQL	5.00	1	11/24/2008
Chloroform	BQL	5.00	1	11/24/2008
Chloromethane	BQL	5.00	1	11/24/2008
2-Chlorotoluene	BQL	5.00	1	11/24/2008
4-Chlorotoluene	BQL	5.00	1	11/24/2008
Dibromochloromethane	BQL	5.00	1	11/24/2008
1,2-Dibromo-3-chloropropane	BQL	25.0	1	11/24/2008
Dibromomethane	BQL	5.00	1	11/24/2008
1,2-Dibromoethane (EDB)	BQL	5.00	1	11/24/2008
1,2-Dichlorobenzene	BQL	5.00	1	11/24/2008
1,3-Dichlorobenzene	BQL	5.00	1	11/24/2008
1,4-Dichlorobenzene	BQL	5.00	1	11/24/2008
trans-1,4-Dichloro-2-butene	BQL	25.0	1	11/24/2008
1,1-Dichloroethane	BQL	5.00	1	11/24/2008
1,1-Dichloroethene	BQL	5.00	1	11/24/2008
1,2-Dichloroethane	BQL	5.00	1	11/24/2008
cis-1,2-Dichloroethene	BQL	5.00	1	11/24/2008
trans-1,2-dichloroethene	BQL	5.00	1	11/24/2008
1,2-Dichloropropane	BQL	5.00	1	11/24/2008
1,3-Dichloropropane	BQL	5.00	1	11/24/2008
2,2-Dichloropropane	BQL	5.00	1	11/24/2008
1,1-Dichloropropene	BQL	5.00	1	11/24/2008
cis-1,3-Dichloropropene	BQL	5.00	1	11/24/2008
trans-1,3-Dichloropropene	BQL	5.00	1	11/24/2008
Dichlorodifluoromethane	BQL	5.00	1	11/24/2008
Diisopropyl ether (DIPE)	BQL	5.00	1	11/24/2008
Ethylbenzene	BQL	5.00	1	11/24/2008
Hexachlorobutadiene	BQL	5.00	1	11/24/2008
2-Hexanone	BQL	12.5	1	11/24/2008
Iodomethane	BQL	5.00	1	11/24/2008



Locations Nationwide

- Alaska
- Hawaii
- Ohio
- Maryland
- New Jersey
- North Carolina
- West Virginia

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090436

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Sampler

☐ 1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 348-0725 Fax: (304) 348-0781

200 W. Potter Drive
Anchorage, AK 98518 Tel: (907) 562-2343 Fax: (907) 561-5301
5500 Business Drive
Wilmington, NC 28408 Tel: (910) 350-1903 Fax: (910) 350-1557

APPENDIX F
Photographs of Excavation Activities



UST TT-3026 – Tarawa Terrace – Tank Exposed Pic #1 24Oct08



UST TT-3026 – Tarawa Terrace – Tank Exposed Pic #2 24Oct08



UST TT-3026 – Tarawa Terrace –Tank Topside Pic #1 24Oct08



UST TT-3026 – Tarawa Terrace –Tank Topside Pic #2 24Oct08



UST TT-3026 – Tarawa Terrace –Tank Pit Re-Excavation Pic #1 30Oct08



UST TT-3026 – Tarawa Terrace –Tank Pit Re-Excavation Pic #2 30Oct08



UST TT-3026 – Tarawa Terrace –Tank Pit Final Excavation Pic #1 21Nov08