



Engineering of NC INC

an affiliate of **The GEL Group** INC

## **PRELIMINARY SITE ASSESSMENT REPORT**

**2968 Old Cullowhee Road (SR 1002)  
Arnold Ashe Property, Parcel 020  
Cullowhee, North Carolina  
State Project B-4159  
WBS Element #33507.1.1  
Jackson County**

North Carolina Department of Transportation  
Geotechnical Engineering Unit  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

April 16, 2014

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**TABLE OF CONTENTS**

<b>Section</b>	<b>Subject</b>	<b>Page</b>
Signature Page .....		i
Executive Summary.....		iii
1.0	Introduction .....	1
2.0	Background .....	1
3.0	Local Geology and Surroundings .....	2
4.0	Subsurface Investigation .....	3
4.1	Geophysical Survey .....	3
4.1.1	Ground Penetrating Radar Methodology.....	3
4.1.2	Time Domain Electromagnetic Methodology .....	5
4.1.3	Field Procedures .....	6
4.2	Subsurface Soil Investigation .....	6
5.0	Conclusions and Recommendations.....	7

Figures

- 1 Site Location Map
- 2 Designated Investigation Area for Parcel 020
- 3 Site Map Showing Results of Geophysical Investigation
- 4 Site Map Showing Locations of Soil Borings
- 5 Supplemental Legend for Use with Figures 2, 3, and 4

Tables

- 1 Summary of Analytical Results for Collected Soil Samples


Appendices

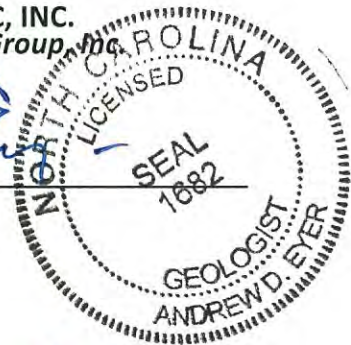
- I Photographs
- II Soil Boring Lithologic Logs
- III Certificates of Analysis and Chain of Custody Records for Soil Samples

## Signature Page

This document, entitled *Preliminary Site Assessment Report*, has been prepared for the Arnold Ashe Property (Parcel 020), located at 2968 Old Cullowhee Road in Cullowhee, North Carolina (State Project B-4159, WBS Element #33507.1.1, Jackson County). It has been prepared by GEL Engineering of NC, Inc. in accordance with the Notice to Proceed provided by the North Carolina Department of Transportation-GeoEnvironmental Section, Geotechnical Engineering Unit for the exclusive use of the North Carolina Department of Transportation. It has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned.

GEL ENGINEERING OF NC, INC.  
*an Affiliate of The GEL Group, Inc.*

  
\_\_\_\_\_  
Andrew D. Eyer, L.G.  
Senior Project Manager



04-16-14  
\_\_\_\_\_  
Date

## **PRELIMINARY SITE ASSESSMENT REPORT**

**2968 Old Cullowhee Road (SR 1002)  
Arnold Ashe Property, Parcel 020  
Cullowhee, North Carolina  
State Project B-4159, WBS Element #33507.1.1  
Jackson County**

### **Executive Summary**

The subject site is the Arnold Ashe property (Parcel 020) located at 2968 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina. The primary purpose of this investigation was to evaluate the presence or absence of underground storage tanks (USTs) and constituents of concern in soil within the North Carolina Department of Transportation (NCDOT) existing and proposed Rights-of-Way (ROWs) and easements adjacent to Parcel 020, as a result of previous and/or current operations at the subject site.

Parcel 020 contains the Cullowhee Café, which is a 1-story building that operates as a restaurant. The Cullowhee Café currently operates as a restaurant on the property, and replaced a Pizza Hut restaurant several years ago, which had been operating at the site since 1975. There is currently no visible evidence of existing USTs or vents at the site, and representatives of the NCDENR Asheville District office indicated that there are no files for the site in its database. No NCDENR UST Incident number or Facility ID number has been assigned to the property.

GEL Engineering of NC, Inc. (GEL) performed a preliminary site assessment within the existing and proposed NCDOT ROWs and easements that included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified, and it has been concluded that there are no USTs present within the existing or proposed ROWs or easements.

## **Executive Summary (continued)**

Soil samples were collected for analysis from two borings constructed within the investigation area, and analyzed for petroleum hydrocarbon constituents, including Diesel Range Organics (DRO) and Gasoline Range organics (GRO). Neither DRO nor GRO was detected at levels exceeding the NCDENR action level for DRO and GRO (10 milligrams per kilogram).

No additional environmental investigation of the soil at the site is recommended at this time.

## **PRELIMINARY SITE ASSESSMENT REPORT**

**2968 Old Cullowhee Road (SR 1002)  
Arnold Ashe Property, Parcel 020  
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State Project B-4159, WBS Element #33507.1.1  
Jackson County**

### **1.0 Introduction**

This document presents the details of a geophysical survey and preliminary site assessment performed within the North Carolina Department of Transportation (NCDOT) existing and proposed Rights-of-Way (ROWs) and easements at the Arnold Ashe property (Parcel 020) located at 2968 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina.

Parcel 020 contains a 1-story building that operates as a restaurant, as shown in Photographs 1 and 2 in Appendix I. The site location is shown on Figure 1, an excerpt from the United States Geological Survey (USGS) 7.5-minute quadrangle map of Sylva South, North Carolina. The preliminary site assessment was conducted by GEL Engineering of NC, Inc. (GEL) in accordance with the Notice to Proceed issued by NCDOT on December 16, 2013.

The primary purpose of this investigation was to evaluate the presence or absence of underground storage tanks (USTs) and/or constituents of concern in soil within the NCDOT ROWs and proposed easements at the subject site as a result of current and/or former operations.

### **2.0 Background**

NCDOT is planning road improvements to the area in the vicinity of Old Cullowhee Road in Cullowhee, North Carolina. NCDOT wanted to assess the area in the ROW and proposed easements on the north side of Old Cullowhee Road, adjacent to Parcel 020, to evaluate the presence or absence of USTs and soil contamination related to the current and/or former on-site operations, and the impact (if any) of these operations on the proposed road improvements. Figures 2 through 4 show the general site layout for Parcel 020.

The Cullowhee Café currently operates as a restaurant on the property, and replaced a Pizza Hut restaurant several years ago, which had been operating at the site since 1975. The manager of Cullowhee Café indicated that petroleum products had never been stored or distributed at the site. There is currently no visible evidence of existing USTs or vents at the site, and representatives of the NCDENR Asheville District office indicated that there are no files for the site in its database. No NCDENR UST Incident number or Facility ID number has been assigned to the property.

### **3.0 Local Geology and Surroundings**

Parcel 020 is located in a developed area of Cullowhee in Jackson County, North Carolina. Surrounding land uses include residential and commercial activities.

This area is located in the Blue Ridge Belt within the Blue Ridge Physiographic of North Carolina. The land surface of the area is characterized by mountainous terrain. The Blue Ridge Belt is typified by a complex of sedimentary, metamorphic, and igneous rocks, including felsic gneiss and granite that are Late Proterozoic in age. The Cullowhee area is located adjacent to and within the Tuckasegee River floodplain.

The United States Department of Agriculture's *Web Soil Survey* (2014) (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) maps the native soil in the investigation area as "Braddock-Urban Land Complex" (BrC), which is characterized as stream terraces consisting of clay and clay loam derived from old alluvium. The soils encountered at the site during the preliminary site assessment consisted predominantly of red/brown sandy clay.

Groundwater was not encountered in borings constructed as part of the preliminary site assessment. Previous depth to groundwater measurements made in monitoring wells located in the Cullowhee area indicate the water table in the area of the site is typically located at depths of at least 20 feet below ground surface (bgs). Based on the USGS topographic map presented as Figure 1, the site is located approximately 2100 feet above mean sea level. The topography in Figure 1 indicates that groundwater in the vicinity of Parcel 020 most likely flows in a northerly direction towards the Tuckasegee River.

#### **4.0 Subsurface Investigation**

To evaluate the presence or absence of USTs and/or impact to subsurface soil within the NCDOT ROW and proposed easements for the Parcel 020, GEL performed a limited site assessment in the highlighted area shown in Figure 2, that consisted of the following tasks:

- Performance of a geophysical investigation to identify the presence or absence of USTs and associated appurtenances within the northerly ROW and proposed easements of Old Cullowhee Road fronting Parcel 020.
- Soil vapor screening of soil samples collected from subsurface soil borings located within the northerly ROW and proposed easements of Old Cullowhee Road fronting Parcel 020 to evaluate the potential presence or absence of soil impact from petroleum constituents of concern.
- Collection and laboratory analysis of soil samples from the subsurface borings.

The details of these tasks are discussed in the following sections.

#### **4.1 Geophysical Survey**

The geophysical survey included the deployment of ground penetrating radar (GPR) technology and time domain electromagnetic technology (TDEM) to the site. These technologies were used in concert with one another in order to identify subsurface metallic anomalies and, more specifically, to identify the potential presence of USTs within the investigation area. A brief description of each technology is presented in the following paragraphs followed by a discussion of the results of the geophysical investigation.

##### **4.1.1 Ground Penetrating Radar Methodology**

A RAMAC digital radar control system configured with a 250 Megahertz (MHz) antenna array was used in this investigation. GPR is an electromagnetic geophysical method that detects interfaces between subsurface materials with differing dielectric constants. The GPR system consists of an antenna that houses the transmitter and receiver, a digital control unit that both generates and digitally records the GPR data, and a color video monitor to view data as they are collected in the field.



The transmitter radiates repetitive short-duration electromagnetic waves (at radar frequencies) into the earth from an antenna moving across the ground surface. These radar waves are reflected back to the receiver from the interface of materials with different dielectric constants. The intensity of the reflected signal is a function of the contrast in the dielectric constant between the materials, the conductivity of the material through which the wave is traveling, and the frequency of the signal. Subsurface features that commonly cause such reflections are: 1) natural geologic conditions, such as changes in sediment composition, bedding, and cementation horizons and voids; or 2) unnatural changes to the subsurface, such as disturbed soils, soil backfill, buried debris, tanks, pipelines, and utilities. The digital control unit processes the signal from the receiver and produces a continuous cross-section of the subsurface interface reflection events.

GPR data profiles are collected along transects, which are measured paths along which the GPR antenna is moved. During a survey, marks are placed in the data by the operator at designated points along the GPR transects or with a survey wheel odometer. These marks allow for a correlation between the GPR data and the position of the GPR antenna on the ground.

Depth of investigation of the GPR signal is highly site-specific and is limited by signal attenuation (absorption) in the subsurface materials. Signal attenuation is dependent on the electrical conductivity of the subsurface materials. Signal attenuation is greatest in materials with relatively high electrical conductivities, such as clays, brackish groundwater, or groundwater with a high dissolved solid content from natural or man-made sources. Signal attenuation is lowest in relatively low-conductivity materials, such as dry sand or rock. Depth of investigation is also dependent on the antenna's transmitting frequency. Depth of investigation generally increases as transmitting frequency decreases; however, the ability to resolve smaller subsurface features is diminished as frequency is decreased.

The GPR antenna used at this site is internally shielded from aboveground interference sources. Accordingly, the GPR response is not affected by overhead power lines, metallic buildings, or nearby objects.

#### **4.1.2 Time Domain Electromagnetic Methodology**

The TDEM methods measure the electrical conductivity of subsurface materials. The conductivity is determined by inducing (from a transmitter) a time or frequency-varying magnetic field and measuring (with a receiver) the amplitude and phase shift of an induced secondary magnetic field. The secondary magnetic field is created by subsurface conductive materials behaving as an inductor as the primary magnetic field is passed through them.

The Geonics EM-61 system used in this investigation operates within these principles. However, the EM-61 TDEM system can discriminate between moderately conductive earth materials and very conductive metallic targets. The EM-61 consists of a portable coincident loop time domain transmitter and receiver with a 0.5-meter by 1.0-meter coil system. The EM-61 generates 150 pulses per second and measures the response from the ground after transmission or between pulses. The secondary EM responses from metallic targets are of longer duration than those created by conductive earth materials. By recording the later time EM arrivals, only the response from metallic targets is measured, rather than the field generated by the earth material.

#### **4.1.3 Field Procedures**

The GPR and TDEM field investigation was performed on December 16, 2013, within the existing and proposed ROWs and easements fronting Parcel 020, as shown in Figure 3. A GPR system time range setting of 90 nanoseconds (ns) was used during the entire investigation. This range was determined after a series of test lines were conducted to evaluate the GPR response in the local geologic section. Interpretation of the GPR data was conducted in the field and any potential anomalies were marked in the field. GPR data processing typically included band pass filtering, background removal, horizontal smoothing, and gain adjustments. TDEM was also used to scan the project site. Any electromagnetic anomalies indicative of buried metallic objects were marked in the field.

It should be noted that NC 811 underground utility locations had been performed within the investigation area at Parcel 020 prior prior to the initiation of the preliminary site assessment field activities at the site and were marked with paint.

The TDEM and GPR data did not indicate the presence of “Known USTs,” “Probable USTs,” or “Possible USTs” in the subsurface of the investigation area. Additionally, there was no visual evidence of USTs in the investigation area. No GPR subsurface anomalies were identified at the site, but a large EM-61 subsurface anomaly was identified covering the width of site’s asphalt entrance driveway. It has been concluded that the identified anomaly was the result of concrete paving beneath the asphalt, which was during the construction of boring S20-1, located on the eastern side of the driveway.

#### **4.2 Subsurface Soil Investigation**

To evaluate the presence or absence of impact to subsurface soil by constituents of concern, GEL collected soil samples from two subsurface soil borings, S20-1 and S20-2, at Parcel 020 on December 16, 2013, for analysis of total petroleum hydrocarbon indicator parameters. The soil borings were constructed within the northerly ROW and proposed easements of Old Cullowhee Road, as shown on Figure 4 and Photograph 2 in Appendix I. The northing and easting coordinates for the boring locations are listed in the table below.

#### **Summary of Location Data and PID Measurements for Soil Samples Collected for Analysis at Parcel 020**

<b>Soil Boring</b>	<b>Depth Interval of Soil Sample Collected for Analysis (feet bgs)</b>	<b>PID Reading (ppm)</b>	<b>Northing</b>	<b>Easting</b>
S20-1	7-8	0.0	596840.936	754584.824
S20-2	7-8	0.0	596813.228	754525.082

Notes:

- 1) Northings and Eastings are based on the NC State Plane Coordinate System
- 2) bgs = below ground surface
- 3) PID = photoionization detector
- 4) ppm = parts per million

All borings were advanced to a total depth of 8 feet bgs. Soil samples were collected at depths of 3-4 feet and 7-8 feet from each borehole. All soil samples were inspected for indications of impact by constituents of concern, including petroleum hydrocarbons, such as odors, discoloration, or visible sheen. This sampling was accomplished using DPT provided by Regional Probing. Soil boring lithologic logs are attached as Appendix II of this document. Groundwater was not encountered in any borings.

The soil samples were screened for the presence of organic vapors using a portable photoionization detector (PID). The PID measures the concentration of organic compounds in the vapor space above a soil sample resulting from volatilization of organic compounds contained in the soil. To screen the soils, each sample was placed in a clean, resealable polyethylene bag. The bag was sealed, and the sample was allowed to equilibrate for approximately 5 minutes, after which time a small opening was made in the bag. The probe of the PID was then inserted into the bag, and the airspace above the soil was screened for organic vapors.

No organic vapor concentrations were measured in any of the soil screening samples collected from the two borings. Therefore, to assess the subsurface soil quality, soil samples collected at a depth of 7-8 feet bgs from borings S20-1 and S20-2 were designated for analysis. One-half of each designated soil sample was submitted to each of two separate laboratories for analysis.

Following completion of the soil sampling activities, all borings were abandoned by filling the boreholes with soil cuttings and hydrated bentonite. Boring S20-1 was topped with asphalt patch material. Splits for each soil sample were submitted to QROS' analytical laboratory affiliate (KB Labs, Inc.) in Gainesville, Florida for analysis of petroleum hydrocarbon constituents using Ultra-violet Fluorescence Spectrometry, and to Pace Analytical Services, Inc. (Pace) in Huntersville, North Carolina for analysis of diesel range organics (DRO) by EPA Method 8015 with EPA Method 3545 sample preparation, and gasoline range organics (GRO) by EPA Method 8015 with EPA Method 5035A/5030B sample preparation. The analytical results are included on the Certificates of Analysis provided in Appendix III, and a summary of the analytical results is presented in Table 1. Both the QROS results and the Pace results indicate that no petroleum hydrocarbon constituents were detected in the soil samples collected from borings S20-1 and S20-2 at levels exceeding the NCDENR action level for DRO and GRO (10 milligrams per kilogram (mg/kg)).

## **5.0 Conclusions and Recommendations**

GEL performed a preliminary site assessment within the NCDOT northerly ROW and proposed easements fronting Parcel 020 that included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified within the investigation area, and it has been

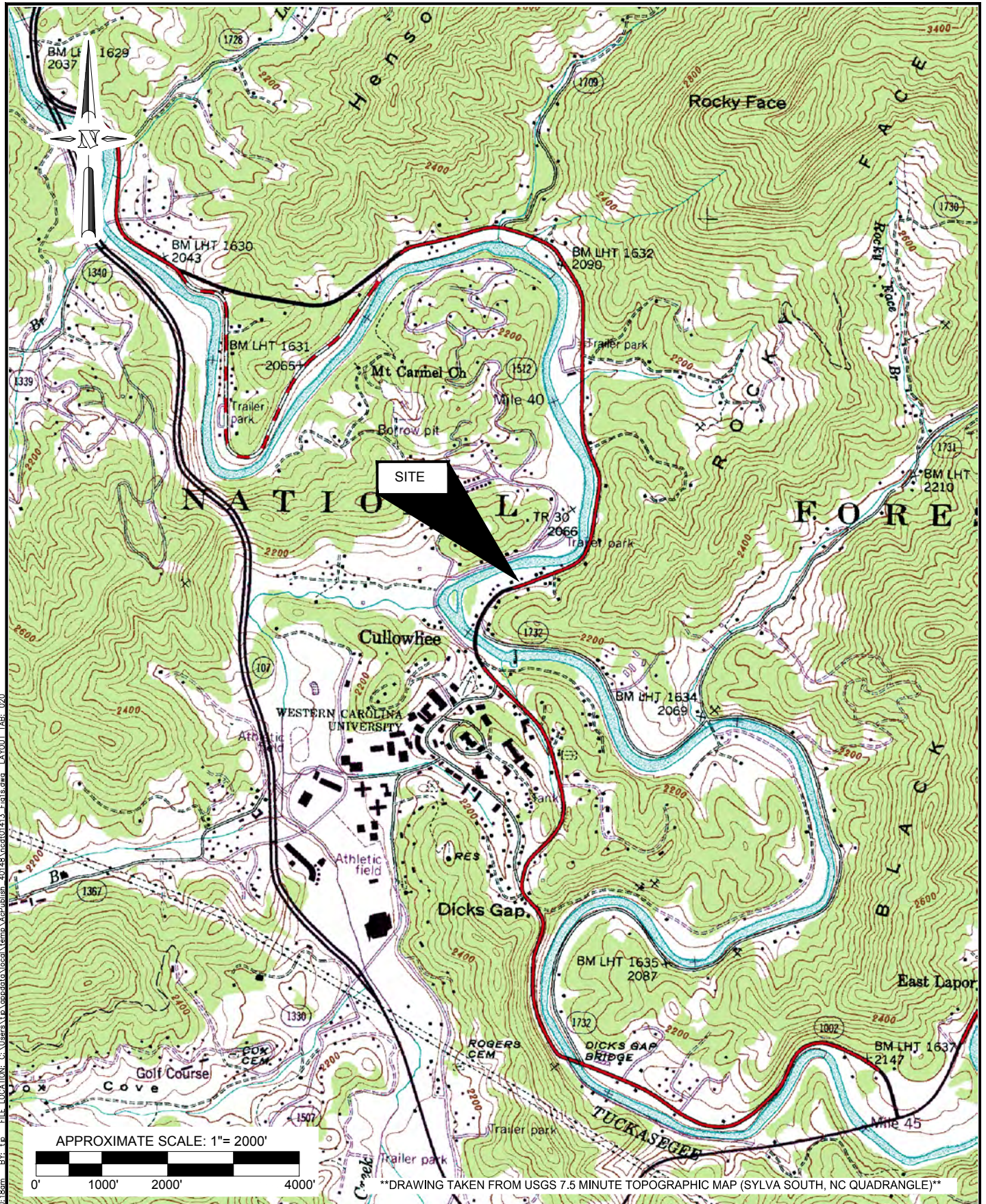
concluded that there are no USTs present within the northerly existing and proposed ROWs and proposed easements adjacent to the site.

Soil samples were collected for analysis from two borings constructed within the investigation area, and analyzed for petroleum hydrocarbon constituents, including DRO and GRO. Neither DRO nor GRO was detected at levels exceeding the NCDENR action level for DRO and GRO (10 mg/kg).

No additional environmental investigation of the soil at the site is recommended at this time.

## FIGURES





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PROJECT: ncdt01413  
 PRELIMINARY SITE ASSESSMENT  
 PARCEL 020  
 CULLOWHEE, JACKSON COUNTY,  
 NORTH CAROLINA  
 TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1  
 DATE: February 3, 2014

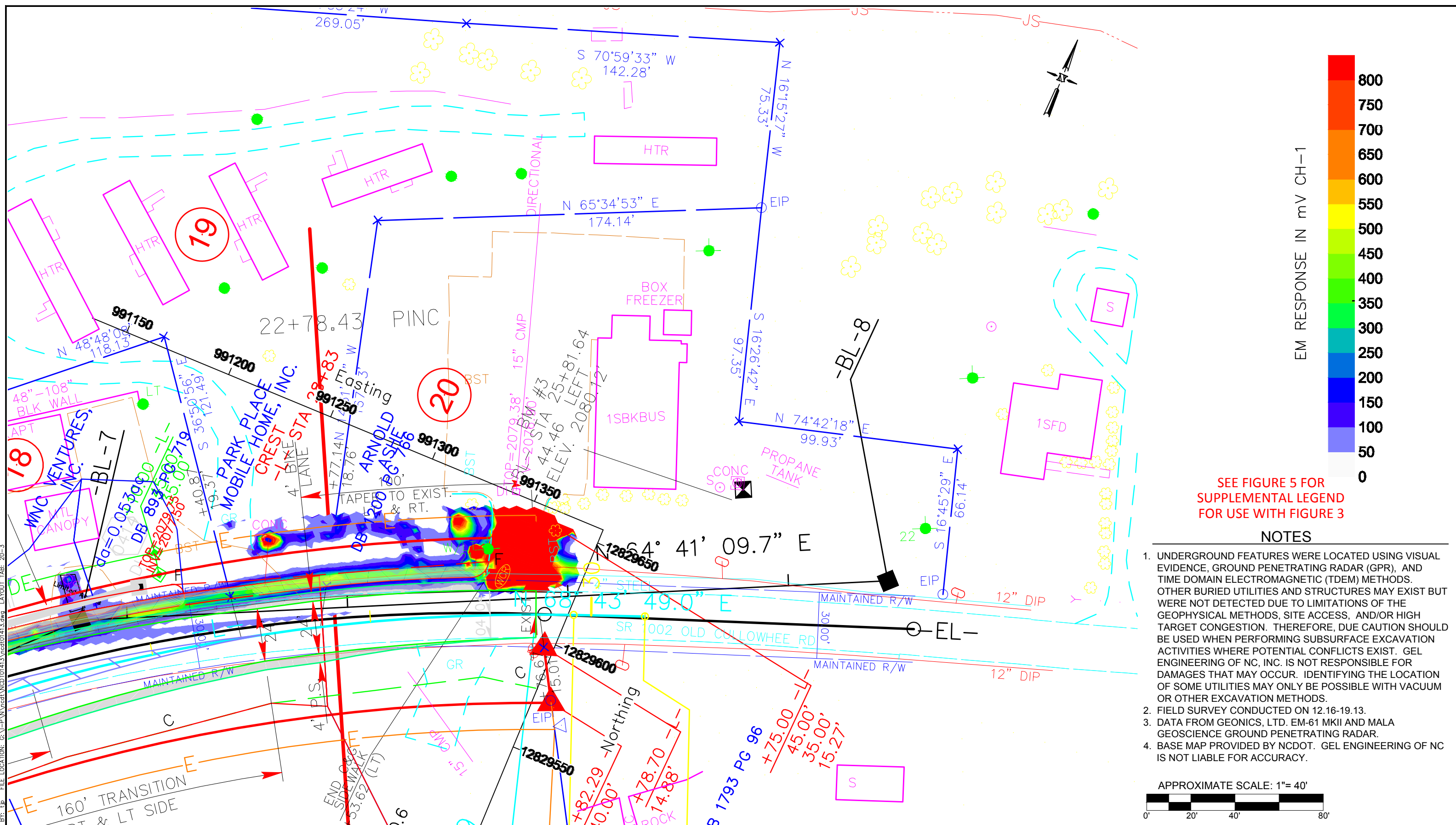
SITE LOCATION  
 MAP  
 DRAWN: TJP    APPRV.: ADE

FIGURE  
 1

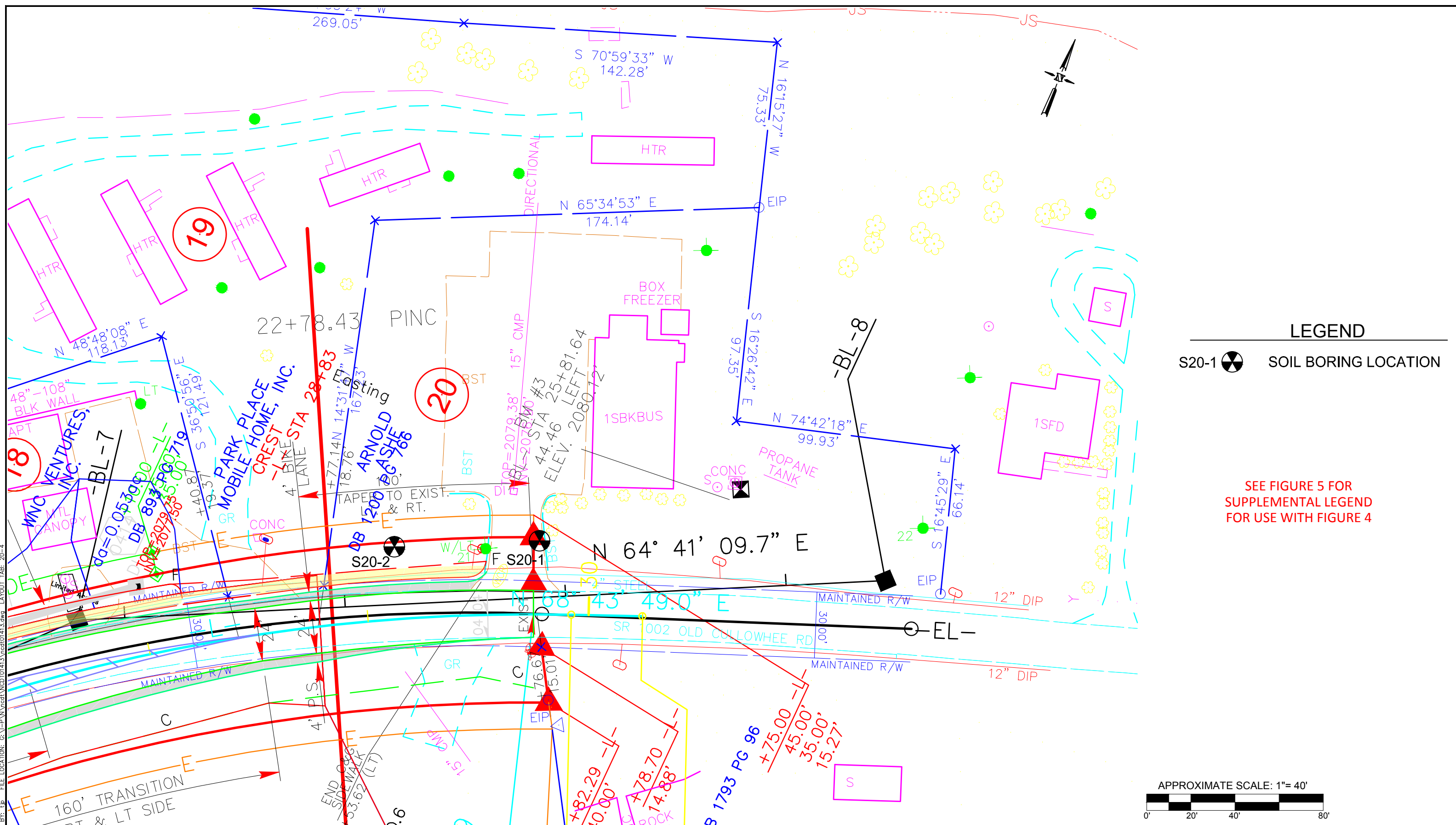










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**LEGEND**  
 S20-1  SOIL BORING LOCATION

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 4

APPROXIMATE SCALE: 1"= 40'  


PLOTTED: Apr 16, 2014 - 2:58pm  
 BY: tj  
 FILE LOCATION: G:\P\N\ncdt01413\ncdt01413.dwg LAYOUT TAB: 20-4

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PROJECT: ncdt01413  
 PRELIMINARY SITE ASSESSMENT  
 PARCEL 020  
 CULLOWHEE, JACKSON COUNTY,  
 NORTH CAROLINA  
 TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1  
 DATE: April 14, 2014

SITE MAP SHOWING LOCATIONS OF  
 SOIL BORINGS

DRAWN BY: TJP APPRV. BY: ADE

FIGURE  
 4



## TABLES

**TABLE 1**

**SUMMARY OF ANALYTICAL RESULTS FOR COLLECTED SOIL SAMPLES**

**Preliminary Site Assessment  
 Parcel 020, 2968 Old Cullowhee Road  
 Cullowhee, Jackson County, North Carolina  
 State Project No. B-4159, WBS Element #33507.1.1**

Sample ID	Diesel Range Organics (DRO)		Gasoline Range Organics (GRO)		QROS Analytical Results				
	QROS	Pace	QROS	Pace	BTEX (C6-C9)	TPH (C5-C35)	Total Aromatics (C10-C35)	16 EPA PAHs	Benzo(a)pyrene
S20-1	3.7	< 6.0	< 0.6	< 5.6	< 0.5	3.7	3.08	< 0.05	< 0.027
S20-2	< 0.6	< 6.7	< 0.6	< 6.2	< 0.6	< 0.6	< 0.57	< 0.06	< 0.028
<b><i>NCDENR Action Level</i></b>	<b><i>10</i></b>	<b><i>10</i></b>	<b><i>10</i></b>	<b><i>10</i></b>					
<b><i>NCDENR MSCC</i></b>									<b><i>0.096</i></b>

**Notes:**

- 1) All reported values are shown in milligrams per kilogram (mg/kg).
- 2) MSCC = NCDENR's Maximum Soil Contaminant Concentration Levels (April 2012); MSCC shown is the lowest of established Residential Soil Cleanup Levels and Soil-to Groundwater Maximum Contaminant Concentration shown in the NCDENR MSCC Table for any given constituent.
- 3) Reported values exceeding corresponding NCDENR Action Levels or MSCCs are highlighted in yellow.

## **APPENDICES**

**APPENDIX I**  
**PHOTOGRAPHS**





Photograph 1: View looking east from Parcel 018 at Parcel 019 (in foreground) and Parcel 020 (in background).





Photograph 2: View looking east at soil boring locations S20-1 and S20-2.





Photograph 3: View looking west from parcel 020 at Parcel 019 (in center) and Parcel 018 (in background).

**APPENDIX II**

**SOIL BORING LITHOLOGIC LOGS**

## SOIL BORING LOG

Boring/Well No.: **S20-1**  
 Date Started: 12/16/13  
 Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 4.0'	--	(3'-4') 0.0	Red Clay; Moist; Cohesive; Asphalt/Gravel 0'-0.75'	CL
2	4.0' – 8.0'	--	(7'-8') 0.0	Red Sandy Silt with Gravel; Moist	ML
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					
11					
12					

Notes:

- 1) 4-foot continuous cores using DPT.
- 2) PID readings shown are for discrete samples collected at depth intervals of 3'–4', and 7'–8'

## SOIL BORING LOG

Boring/Well No.: **S20-2**  
 Date Started: 12/16/13  
 Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 4.0'	--	(3'-4') 0.0	Red Sandy, Silty Clay; Moist; Micaceous Clay; ROC/gravel 0'-0.5'	CL
2	4.0' – 8.0'	--	(7'-8') 0.0	Red/Brown Silt with Sand; Moist; Micaceous	ML
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					
11					
12					

Notes:

- 1) 4-foot continuous cores using DPT.
- 2) PID readings shown are for discrete samples collected at depth intervals of 3'–4', and 7'–8'

**APPENDIX III**

**CERTIFICATES OF ANALYSIS AND  
CHAIN OF CUSTODY RECORD FOR SOIL SAMPLES**

## **KB Labs, Inc. Results**



### Hydrocarbon Analysis Results

**Client:** GEL ENS of NC  
**Address:**

**Samples taken**  
**Samples extracted**  
**Samples analysed**

12/16 & 12/17/13  
 12/16 & 12/17/13  
 Thursday, December 19, 2013

**Contact:** Andrew Eyer

**Operator**

CSB

**Project:** B-4159, Cullowhee NC

Hydrocarbon Analysis Results													
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	S-18-3	10.9	<0.5	<0.5	28.7	28.7	20.94	0.48	< 0.027	57.2	39.9	2.9	V.Deg.PHC 98.5%
s	S-18-2	14.0	<0.7	<0.7	26.7	26.7	19.79	0.58	0.07	53.6	38.9	7.5	V.Deg.PHC 80.9%
s	S-18-1	60.2	<3	<3	179.4	179.4	133.97	3.02	< 0.15	52.2	44.5	3.3	V.Deg.PHC 98.5%
s	S-19.1	11.6	<0.6	<0.6	<0.6	<0.6	< 0.58	< 0.06	< 0.029	0	0	100	Deg.Fuel 700.2%
s	S-20-2	11.4	<0.6	<0.6	<0.6	<0.6	< 0.57	< 0.06	< 0.028	0	41	59	PAH
s	S-20-1	10.9	<0.5	<0.5	3.7	3.7	3.08	< 0.05	< 0.027	55.4	37.6	7	Degraded Fuel (PFM)
s	S-11-1	10.7	<0.5	<0.5	<0.5	<0.5	< 0.54	< 0.05	< 0.027	0	0	100	Match not possible
s	S-11-2	21.2	<1.1	<1.1	37.4	37.4	28.99	0.94	0.16	44.9	37.8	17.4	V.Deg.PHC 74%
s	S-11-3	48.8	<2.4	<2.4	39.1	39.1	29.43	0.7	< 0.122	50.6	40.8	8.6	V.Deg.PHC 99.9%
s	S-13-1	10.8	<0.5	<0.5	12.4	12.4	11.6	0.43	0.08	45.3	44.7	10	V.Deg.PHC 73.9%
Initial Calibrator QC check			OK		Low Range Calibrator Final check					Low		0.067	
					High Range Calibrator Final check					OK		1.536	

Results generated by a QED HC-1 analyser

Fingerprints provide a tentative hydrocarbon identification based on operator selected library matches

Concentration values in mg/kg for soil samples and mg/L for water samples.

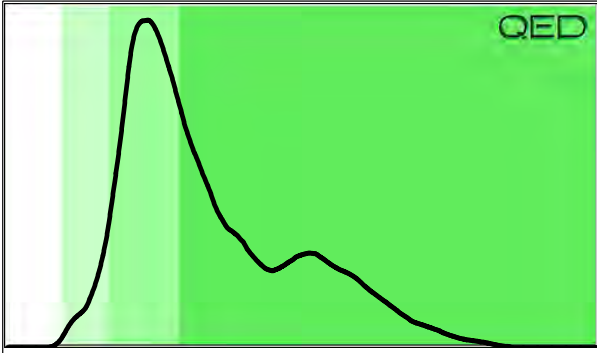
Fingerprint match abbreviations Est = Specific calibrator not used, result estimated (PFM)= Poor library fingerprint match

Soil values are not corrected for moisture or stone content

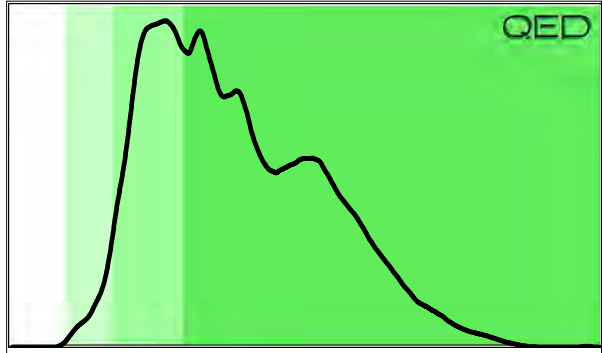
(SBS)= site specific background subtracted (LBS)= Library background subtracted % = match confidence



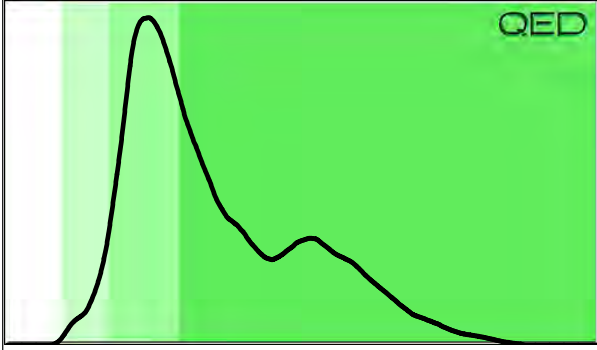
V.Deg.PHC 98.5% S-18-3



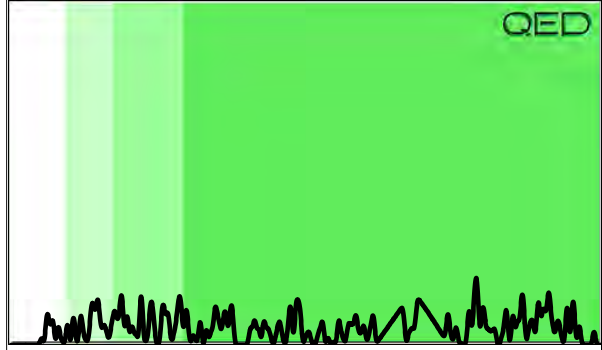
V.Deg.PHC 80.9% S-18-2



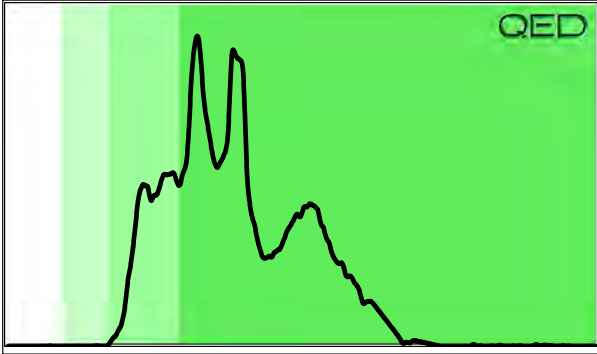
V.Deg.PHC 98.5% S-18-1



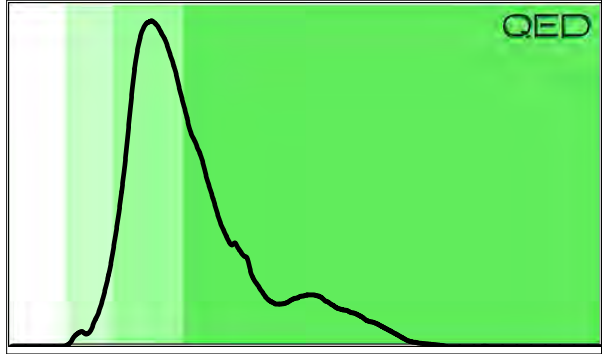
Deg.Fuel 700.2% S-19-1



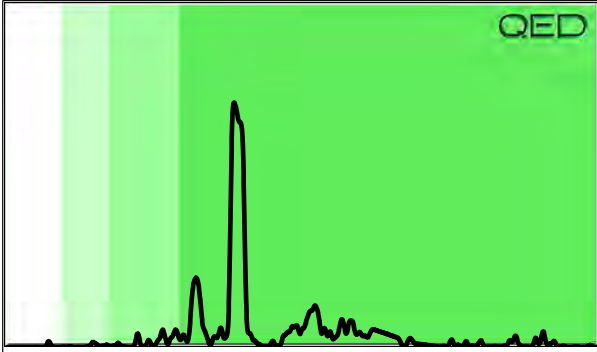
PAH S-20-2



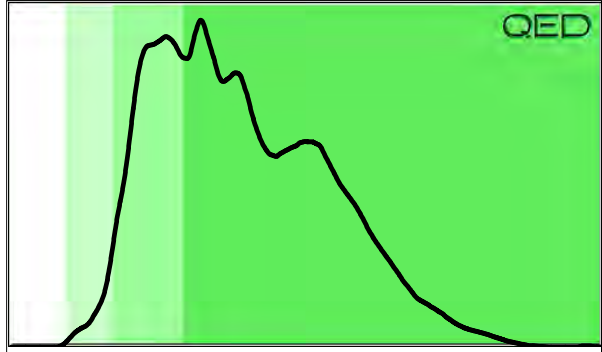
Degraded Fuel (PFM) S-20-1



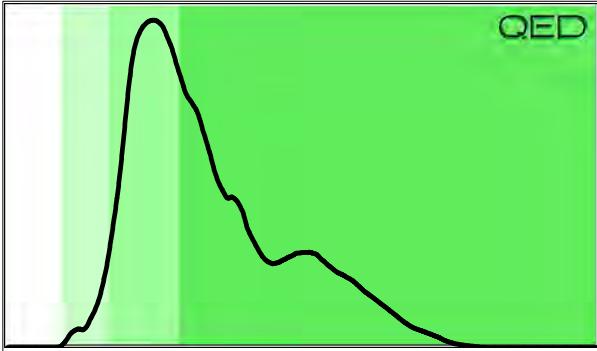
Match not possible S-11-1



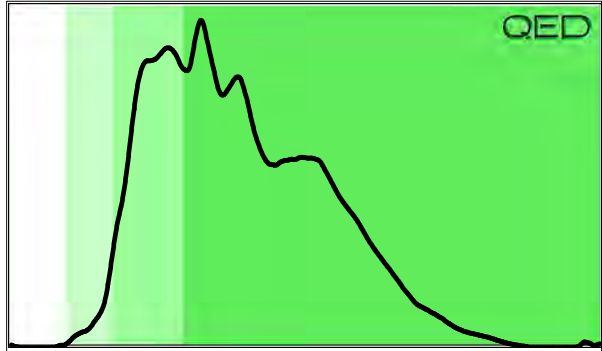
V.Deg.PHC 74% S-11-2



V.Deg.PHC 99.9% S-11-3



V.Deg.PHC 73.9% S-13-1





6821 SW Archer Road  
Gainesville, FL 32608  
TEL (352) 367-0073 · FAX (352) 378-6491

# CHAIN-OF-CUSTODY RECORD

6701 Conference Drive  
Raleigh, NC 27607  
TEL (352) 538-6507

MOBILE UNIT #

CLIENT NAME		PROJECT NAME & ADDRESS						SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	PRESERVATION					
SAMPLERS		CONTACT PERSON					BATCH # (Lab Use Only)				C	H	Ot	Other (see Remarks)		
SAMPLE FIELD ID. \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	COMMENT / SAMPLE PRE FIX					
GEL ENG. N.C.		B-4159, Calloway A.C.														
WSR, RSG		Andrew Eyer														
S-18-3	12/14/12	1330		X				S	1	✓					48 hr TA	
S-18-2		1350		X				S	1	✓					48 hr TA	
S-18-1		1420		X				S	1	✓					48 hr TA	
S-19-1		1525		X				S	1	✓					48 hr TA	
S-20-2		1555		X				S	1	✓					48 hr TA	
S-20-1		1615		X				S	1	✓					48 hr TA	
S-11-1		1650		X				S	1	✓					48 hr TA	
S-11-2		12/17/12	0920		X				S	1	✓					48 hr TA
S-11-3			0945		X				S	1	✓					48 hr TA
S-13-1			1015		X				S	1	✓					48 hr TA
S-13-2			1045		X				S	1	✓					48 hr TA
S-15-1		1110		X				S	1	✓					48 hr TA	
S-12-1		1155		X				S	1	✓					48 hr TA	
S-12-2		1230		X				S	1	✓					49 hr TA	
S-12-4		1245		X				S	1	✓					48 hr TA	
Prcleaned Containers Relinquished by: (Signature) <i>Steve Rucker</i>		Date / Time	Received by: (Signature) <i>[Signature]</i>				Date / Time	Remarks and Observations								
		12/17/12 1250					12/17/12 1250									
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature)				Date / Time									
		12/17/12 1400														

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

## **Pace Analytical Services Results**



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Pace Analytical Services, Inc.  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

January 10, 2014

Andrew Eyer  
GEL Engineering of NC  
PO Box 14262  
Research Triangle, NC 27709

RE: Project: NCDT01413 WBS33507.1.1  
Pace Project No.: 92184006

Dear Andrew Eyer:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Angela Baioni

angela.baioni@pacelabs.com  
Project Manager

Enclosures

cc: Chemical Testing Engineer, NCDOT



### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: NCDT01413 WBS33507.1.1  
Pace Project No.: 92184006

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92184006001	S-18-3	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006002	S-18-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006003	S-18-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006004	S-19-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006005	S-20-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006006	S-20-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006007	S-11-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006008	S-11-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006009	S-11-3	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006010	S-13-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006011	S-13-2	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006012	S-15-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006013	S-12-1	EPA 8015 Modified	NU1	2	PASI-C

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### SAMPLE ANALYTE COUNT

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92184006014	S-12-2	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006015	S-12-4	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006016	S-12-3	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006017	S-12-5	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006018	S-12-6	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006019	S-12-7	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006020	S-12-8	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006021	S-12-9	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006022	S-8-1	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006023	S-8-2	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006024	S-8-5	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-18-3**      **Lab ID: 92184006001**      Collected: 12/16/13 13:30      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	<b>24.2</b>	mg/kg	6.2	1	12/19/13 12:58	12/20/13 23:54	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	62	%	41-119	1	12/19/13 12:58	12/20/13 23:54	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.7	1	12/28/13 09:55	12/28/13 16:28	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-167	1	12/28/13 09:55	12/28/13 16:28	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>18.9</b>	%	0.10	1		12/20/13 08:43		

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-18-2**      **Lab ID: 92184006002**      Collected: 12/16/13 13:50      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	<b>35.9</b>	mg/kg	6.0	1	12/19/13 12:58	12/21/13 00:40	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	80	%	41-119	1	12/19/13 12:58	12/21/13 00:40	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.5	1	12/28/13 09:55	12/28/13 16:51	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104	%	70-167	1	12/28/13 09:55	12/28/13 16:51	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>16.9</b>	%	0.10	1		12/20/13 08:43		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-18-1**      **Lab ID: 92184006003**      Collected: 12/16/13 14:20      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	<b>49.2</b>	mg/kg	6.0	1	12/19/13 12:58	12/21/13 00:40	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	54	%	41-119	1	12/19/13 12:58	12/21/13 00:40	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.8	1	12/28/13 09:55	12/28/13 17:14	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-167	1	12/28/13 09:55	12/28/13 17:14	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>16.2</b>	%	0.10	1		12/20/13 08:43		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-19-1**      **Lab ID: 92184006004**      Collected: 12/16/13 15:25      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	7.6	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:03	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	71	%	41-119	1	12/19/13 12:58	12/21/13 01:03	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.2	1	12/28/13 09:55	12/28/13 17:37	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 17:37	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	25.5	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-20-2**      **Lab ID: 92184006005**      Collected: 12/16/13 15:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:03	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	75	%	41-119	1	12/19/13 12:58	12/21/13 01:03	629-99-2	
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.2	1	12/28/13 09:55	12/28/13 18:00	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-167	1	12/28/13 09:55	12/28/13 18:00	460-00-4	
<b>Percent Moisture</b>								
Analytical Method: ASTM D2974-87								
Percent Moisture	25.0	%	0.10	1		12/20/13 08:44		

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

Sample: S-20-1 Lab ID: 92184006006 Collected: 12/16/13 16:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	6.0	1	12/19/13 12:58	12/21/13 01:27	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	75	%	41-119	1	12/19/13 12:58	12/21/13 01:27	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.6	1	12/28/13 09:55	12/28/13 18:22	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-167	1	12/28/13 09:55	12/28/13 18:22	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	16.9	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-11-1**      **Lab ID: 92184006007**      Collected: 12/16/13 16:50      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	5.9	1	12/19/13 12:58	12/21/13 01:27	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	71	%	41-119	1	12/19/13 12:58	12/21/13 01:27	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	4.9	1	12/28/13 09:55	12/28/13 18:45	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 18:45	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	15.4	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-11-2**      **Lab ID: 92184006008**      Collected: 12/17/13 09:20      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.6	1	12/19/13 12:58	12/21/13 01:50	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	66	%	41-119	1	12/19/13 12:58	12/21/13 01:50	629-99-2	
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.6	1	12/28/13 09:55	12/28/13 19:08	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-167	1	12/28/13 09:55	12/28/13 19:08	460-00-4	
<b>Percent Moisture</b>								
Analytical Method: ASTM D2974-87								
Percent Moisture	24.7	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-11-3**      **Lab ID: 92184006009**      Collected: 12/17/13 09:45      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	<b>10.2</b>	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:50	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	77	%	41-119	1	12/19/13 12:58	12/21/13 01:50	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.3	1	12/28/13 09:55	12/28/13 19:31	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 19:31	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>25.9</b>	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-1**      **Lab ID: 92184006010**      Collected: 12/17/13 10:15      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	83-32-9	
Acenaphthylene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	208-96-8	
Aniline	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	62-53-3	
Anthracene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-12-7	
Benzo(a)anthracene	<b>598</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	56-55-3	
Benzo(a)pyrene	<b>583</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	50-32-8	
Benzo(b)fluoranthene	<b>478</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	191-24-2	
Benzo(k)fluoranthene	<b>520</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	207-08-9	
Benzoic Acid	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	65-85-0	
Benzyl alcohol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	101-55-3	
Butylbenzylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	59-50-7	
4-Chloroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	108-60-1	
2-Chloronaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-58-7	
2-Chlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	7005-72-3	
Chrysene	<b>768</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	53-70-3	
Dibenzofuran	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-83-2	
Diethylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	105-67-9	
Dimethylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	131-11-3	
Di-n-butylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	606-20-2	
Di-n-octylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	117-81-7	
Fluoranthene	<b>1790</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	206-44-0	
Fluorene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	87-68-3	
Hexachlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	77-47-4	
Hexachloroethane	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-1**      **Lab ID: 92184006010**      Collected: 12/17/13 10:15      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	78-59-1	
1-Methylnaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	90-12-0	
2-Methylnaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03		
Naphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	99-09-2	
4-Nitroaniline	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	100-01-6	
Nitrobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	98-95-3	
2-Nitrophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	86-30-6	
Pentachlorophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	87-86-5	
Phenanthrene	<b>1190</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	85-01-8	
Phenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	108-95-2	
Pyrene	<b>1180</b>	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	55 %		23-110	1	12/19/13 13:00	12/20/13 20:03	4165-60-0	
2-Fluorobiphenyl (S)	53 %		30-110	1	12/19/13 13:00	12/20/13 20:03	321-60-8	
Terphenyl-d14 (S)	61 %		28-110	1	12/19/13 13:00	12/20/13 20:03	1718-51-0	
Phenol-d6 (S)	62 %		22-110	1	12/19/13 13:00	12/20/13 20:03	13127-88-3	
2-Fluorophenol (S)	56 %		13-110	1	12/19/13 13:00	12/20/13 20:03	367-12-4	
2,4,6-Tribromophenol (S)	65 %		27-110	1	12/19/13 13:00	12/20/13 20:03	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	92.2	1		12/21/13 18:29	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/21/13 18:29	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/21/13 18:29	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		12/21/13 18:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.2	1		12/21/13 18:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/21/13 18:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		12/21/13 18:29	75-00-3	
Chloroform	<b>99.9</b>	ug/kg	4.6	1		12/21/13 18:29	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-1**      **Lab ID: 92184006010**      Collected: 12/17/13 10:15      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.2	1		12/21/13 18:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/21/13 18:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/21/13 18:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/21/13 18:29	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/21/13 18:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		12/21/13 18:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/21/13 18:29	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/21/13 18:29	87-68-3	
2-Hexanone	ND	ug/kg	46.1	1		12/21/13 18:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/21/13 18:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/21/13 18:29	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/21/13 18:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.1	1		12/21/13 18:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/21/13 18:29	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/21/13 18:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/21/13 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/21/13 18:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-1 Lab ID: 92184006010 Collected: 12/17/13 10:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-67-8	
Vinyl acetate	ND	ug/kg	46.1	1		12/21/13 18:29	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		12/21/13 18:29	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/21/13 18:29	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		12/21/13 18:29	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		12/21/13 18:29	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	107	%	70-130	1		12/21/13 18:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/21/13 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-132	1		12/21/13 18:29	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	18.4	%	0.10	1		12/20/13 08:44		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-2**      **Lab ID: 92184006011**      Collected: 12/17/13 10:45      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	83-32-9	
Acenaphthylene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	208-96-8	
Aniline	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	62-53-3	
Anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	207-08-9	
Benzoic Acid	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	65-85-0	
Benzyl alcohol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	101-55-3	
Butylbenzylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	59-50-7	
4-Chloroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	108-60-1	
2-Chloronaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-58-7	
2-Chlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	7005-72-3	
Chrysene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	53-70-3	
Dibenzofuran	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-83-2	
Diethylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	105-67-9	
Dimethylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	131-11-3	
Di-n-butylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	606-20-2	
Di-n-octylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	117-81-7	
Fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	206-44-0	
Fluorene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	87-68-3	
Hexachlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	77-47-4	
Hexachloroethane	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-2**      **Lab ID: 92184006011**      Collected: 12/17/13 10:45      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	78-59-1	
1-Methylnaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	90-12-0	
2-Methylnaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30		
Naphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-20-3	
2-Nitroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	88-74-4	
3-Nitroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	99-09-2	
4-Nitroaniline	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	100-01-6	
Nitrobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	98-95-3	
2-Nitrophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	88-75-5	
4-Nitrophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	86-30-6	
Pentachlorophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	87-86-5	
Phenanthrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	85-01-8	
Phenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	108-95-2	
Pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	72 %		23-110	1	12/19/13 13:00	12/20/13 20:30	4165-60-0	
2-Fluorobiphenyl (S)	70 %		30-110	1	12/19/13 13:00	12/20/13 20:30	321-60-8	
Terphenyl-d14 (S)	75 %		28-110	1	12/19/13 13:00	12/20/13 20:30	1718-51-0	
Phenol-d6 (S)	58 %		22-110	1	12/19/13 13:00	12/20/13 20:30	13127-88-3	
2-Fluorophenol (S)	54 %		13-110	1	12/19/13 13:00	12/20/13 20:30	367-12-4	
2,4,6-Tribromophenol (S)	61 %		27-110	1	12/19/13 13:00	12/20/13 20:30	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.7	1		12/21/13 18:49	67-64-1	
Benzene	ND	ug/kg	4.8	1		12/21/13 18:49	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/21/13 18:49	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		12/21/13 18:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.7	1		12/21/13 18:49	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/21/13 18:49	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		12/21/13 18:49	75-00-3	
Chloroform	8.2	ug/kg	4.8	1		12/21/13 18:49	67-66-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-13-2**      **Lab ID: 92184006011**      Collected: 12/17/13 10:45      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.7	1		12/21/13 18:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/21/13 18:49	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/21/13 18:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		12/21/13 18:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		12/21/13 18:49	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/21/13 18:49	87-68-3	
2-Hexanone	ND	ug/kg	48.4	1		12/21/13 18:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/21/13 18:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/21/13 18:49	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		12/21/13 18:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.4	1		12/21/13 18:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/21/13 18:49	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/21/13 18:49	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/21/13 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/21/13 18:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

Sample: S-13-2 Lab ID: 92184006011 Collected: 12/17/13 10:45 Received: 12/19/13 11:15 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-67-8	
Vinyl acetate	ND	ug/kg	48.4	1		12/21/13 18:49	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		12/21/13 18:49	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		12/21/13 18:49	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		12/21/13 18:49	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		12/21/13 18:49	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	105	%	70-130	1		12/21/13 18:49	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/21/13 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	76	%	70-132	1		12/21/13 18:49	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	24.7	%	0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-15-1**      **Lab ID: 92184006012**      Collected: 12/17/13 11:10      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	83-32-9	
Acenaphthylene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	208-96-8	
Aniline	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	62-53-3	
Anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	65-85-0	
Benzyl alcohol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	108-60-1	
2-Chloronaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-58-7	
2-Chlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	7005-72-3	
Chrysene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	53-70-3	
Dibenzofuran	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-83-2	
Diethylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	105-67-9	
Dimethylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	117-81-7	
Fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	206-44-0	
Fluorene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	77-47-4	
Hexachloroethane	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-15-1**      **Lab ID: 92184006012**      Collected: 12/17/13 11:10      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	78-59-1	
1-Methylnaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	90-12-0	
2-Methylnaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57		
Naphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	99-09-2	
4-Nitroaniline	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	100-01-6	
Nitrobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	98-95-3	
2-Nitrophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	86-30-6	
Pentachlorophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	87-86-5	
Phenanthrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	85-01-8	
Phenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	108-95-2	
Pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	60 %		23-110	1	12/19/13 13:00	12/20/13 20:57	4165-60-0	
2-Fluorobiphenyl (S)	62 %		30-110	1	12/19/13 13:00	12/20/13 20:57	321-60-8	
Terphenyl-d14 (S)	71 %		28-110	1	12/19/13 13:00	12/20/13 20:57	1718-51-0	
Phenol-d6 (S)	64 %		22-110	1	12/19/13 13:00	12/20/13 20:57	13127-88-3	
2-Fluorophenol (S)	59 %		13-110	1	12/19/13 13:00	12/20/13 20:57	367-12-4	
2,4,6-Tribromophenol (S)	68 %		27-110	1	12/19/13 13:00	12/20/13 20:57	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.4	1		12/21/13 17:54	67-64-1	
Benzene	ND	ug/kg	4.5	1		12/21/13 17:54	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/21/13 17:54	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		12/21/13 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.4	1		12/21/13 17:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/21/13 17:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		12/21/13 17:54	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/21/13 17:54	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-15-1**      **Lab ID: 92184006012**      Collected: 12/17/13 11:10      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.9	1		12/21/13 17:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/21/13 17:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		12/21/13 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/21/13 17:54	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/21/13 17:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		12/21/13 17:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		12/21/13 17:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/21/13 17:54	87-68-3	
2-Hexanone	ND	ug/kg	44.7	1		12/21/13 17:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		12/21/13 17:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/21/13 17:54	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/21/13 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.7	1		12/21/13 17:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/21/13 17:54	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		12/21/13 17:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	103-65-1	
Styrene	ND	ug/kg	4.5	1		12/21/13 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	127-18-4	
Toluene	ND	ug/kg	4.5	1		12/21/13 17:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-15-1 Lab ID: 92184006012 Collected: 12/17/13 11:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-67-8	
Vinyl acetate	ND	ug/kg	44.7	1		12/21/13 17:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		12/21/13 17:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		12/21/13 17:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		12/21/13 17:54	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		12/21/13 17:54	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	99 %		70-130	1		12/21/13 17:54	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		12/21/13 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	118 %		70-132	1		12/21/13 17:54	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	19.3 %		0.10	1		12/20/13 08:44		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-1**      **Lab ID: 92184006013**      Collected: 12/17/13 11:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.8	1	12/19/13 12:58	12/21/13 02:13	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	83	%	41-119	1	12/19/13 12:58	12/21/13 02:13	629-99-2	
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	7.2	1	12/28/13 09:55	12/28/13 19:54	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102	%	70-167	1	12/28/13 09:55	12/28/13 19:54	460-00-4	
<b>Percent Moisture</b>								
Analytical Method: ASTM D2974-87								
Percent Moisture	<b>26.3</b>	%	0.10	1		12/20/13 08:45		

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-2**      **Lab ID: 92184006014**      Collected: 12/17/13 12:30      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>								
Analytical Method: EPA 8015 Modified      Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	5.7	1	12/19/13 12:58	12/21/13 02:13	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	68	%	41-119	1	12/19/13 12:58	12/21/13 02:13	629-99-2	
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 8015 Modified      Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.5	1	12/30/13 11:17	12/31/13 08:17	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-167	1	12/30/13 11:17	12/31/13 08:17	460-00-4	
<b>Percent Moisture</b>								
Analytical Method: ASTM D2974-87								
Percent Moisture	12.6	%	0.10	1		12/20/13 08:45		

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

**Sample: S-12-4**      **Lab ID: 92184006015**      Collected: 12/17/13 12:45      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	5.5	1	12/19/13 12:58	12/21/13 02:36	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	62	%	41-119	1	12/19/13 12:58	12/21/13 02:36	629-99-2	
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.7	1	12/30/13 11:17	12/31/13 09:26	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	108	%	70-167	1	12/30/13 11:17	12/31/13 09:26	460-00-4	
<b>Percent Moisture</b>								
Analytical Method: ASTM D2974-87								
Percent Moisture	9.6	%	0.10	1		12/20/13 08:45		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-3**      **Lab ID: 92184006016**      Collected: 12/17/13 13:10      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	7.5	mg/kg	6.1	1	12/19/13 12:58	12/21/13 02:36	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	64	%	41-119	1	12/19/13 12:58	12/21/13 02:36	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.6	1	12/30/13 11:17	12/31/13 10:34	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104	%	70-167	1	12/30/13 11:17	12/31/13 10:34	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	17.8	%	0.10	1		12/20/13 08:45		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-5**      **Lab ID: 92184006017**      Collected: 12/17/13 15:09      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	83-32-9	
Acenaphthylene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	208-96-8	
Aniline	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	62-53-3	
Anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	207-08-9	
Benzoic Acid	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	65-85-0	
Benzyl alcohol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	59-50-7	
4-Chloroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	108-60-1	
2-Chloronaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-58-7	
2-Chlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	7005-72-3	
Chrysene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	53-70-3	
Dibenzofuran	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-83-2	
Diethylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	105-67-9	
Dimethylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	117-81-7	
Fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	206-44-0	
Fluorene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	77-47-4	
Hexachloroethane	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-5**      **Lab ID: 92184006017**      Collected: 12/17/13 15:09      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	78-59-1	
1-Methylnaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	90-12-0	
2-Methylnaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24		
Naphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-20-3	
2-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	88-74-4	
3-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	99-09-2	
4-Nitroaniline	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	100-01-6	
Nitrobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	98-95-3	
2-Nitrophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	88-75-5	
4-Nitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	86-30-6	
Pentachlorophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	87-86-5	
Phenanthrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	85-01-8	
Phenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	108-95-2	
Pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	64 %		23-110	1	12/19/13 13:00	12/20/13 21:24	4165-60-0	
2-Fluorobiphenyl (S)	70 %		30-110	1	12/19/13 13:00	12/20/13 21:24	321-60-8	
Terphenyl-d14 (S)	74 %		28-110	1	12/19/13 13:00	12/20/13 21:24	1718-51-0	
Phenol-d6 (S)	73 %		22-110	1	12/19/13 13:00	12/20/13 21:24	13127-88-3	
2-Fluorophenol (S)	62 %		13-110	1	12/19/13 13:00	12/20/13 21:24	367-12-4	
2,4,6-Tribromophenol (S)	67 %		27-110	1	12/19/13 13:00	12/20/13 21:24	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.3	1		12/21/13 18:13	67-64-1	
Benzene	ND	ug/kg	4.3	1		12/21/13 18:13	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/21/13 18:13	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		12/21/13 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.3	1		12/21/13 18:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/21/13 18:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		12/21/13 18:13	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/21/13 18:13	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-5**      **Lab ID: 92184006017**      Collected: 12/17/13 15:09      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.6	1		12/21/13 18:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/21/13 18:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/21/13 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/21/13 18:13	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/21/13 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		12/21/13 18:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		12/21/13 18:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/21/13 18:13	87-68-3	
2-Hexanone	ND	ug/kg	43.2	1		12/21/13 18:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/21/13 18:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/21/13 18:13	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		12/21/13 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.2	1		12/21/13 18:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/21/13 18:13	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/21/13 18:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/21/13 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/21/13 18:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-5 Lab ID: 92184006017 Collected: 12/17/13 15:09 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-67-8	
Vinyl acetate	ND	ug/kg	43.2	1		12/21/13 18:13	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		12/21/13 18:13	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/21/13 18:13	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		12/21/13 18:13	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		12/21/13 18:13	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	99 %		70-130	1		12/21/13 18:13	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130	1		12/21/13 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	115 %		70-132	1		12/21/13 18:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	12.0 %		0.10	1		12/20/13 08:45		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-6**      **Lab ID: 92184006018**      Collected: 12/17/13 15:40      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	83-32-9	
Acenaphthylene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	208-96-8	
Aniline	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	62-53-3	
Anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	207-08-9	
Benzoic Acid	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	65-85-0	
Benzyl alcohol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	101-55-3	
Butylbenzylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	59-50-7	
4-Chloroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	108-60-1	
2-Chloronaphthalene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	91-58-7	
2-Chlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	7005-72-3	
Chrysene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	53-70-3	
Dibenzofuran	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	120-83-2	
Diethylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	105-67-9	
Dimethylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	131-11-3	
Di-n-butylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	606-20-2	
Di-n-octylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	117-81-7	
Fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	206-44-0	
Fluorene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	87-68-3	
Hexachlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	77-47-4	
Hexachloroethane	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-6**      **Lab ID: 92184006018**      Collected: 12/17/13 15:40      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b> Analytical Method: EPA 8270      Preparation Method: EPA 3546								
Isophorone	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	78-59-1	
1-Methylnaphthalene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	90-12-0	
2-Methylnaphthalene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50		
Naphthalene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	91-20-3	
2-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	88-74-4	
3-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	99-09-2	
4-Nitroaniline	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	100-01-6	
Nitrobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	98-95-3	
2-Nitrophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	88-75-5	
4-Nitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	86-30-6	
Pentachlorophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	87-86-5	
Phenanthrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	85-01-8	
Phenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	108-95-2	
Pyrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	42 %		23-110	1	12/19/13 13:00	12/20/13 21:50	4165-60-0	
2-Fluorobiphenyl (S)	43 %		30-110	1	12/19/13 13:00	12/20/13 21:50	321-60-8	
Terphenyl-d14 (S)	59 %		28-110	1	12/19/13 13:00	12/20/13 21:50	1718-51-0	
Phenol-d6 (S)	54 %		22-110	1	12/19/13 13:00	12/20/13 21:50	13127-88-3	
2-Fluorophenol (S)	44 %		13-110	1	12/19/13 13:00	12/20/13 21:50	367-12-4	
2,4,6-Tribromophenol (S)	56 %		27-110	1	12/19/13 13:00	12/20/13 21:50	118-79-6	
<b>8260/5035A Volatile Organics</b> Analytical Method: EPA 8260								
Acetone	120	ug/kg	96.0	1		12/21/13 18:33	67-64-1	A+
Benzene	ND	ug/kg	4.8	1		12/21/13 18:33	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/21/13 18:33	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/21/13 18:33	75-25-2	
Bromomethane	ND	ug/kg	9.6	1		12/21/13 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.0	1		12/21/13 18:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/21/13 18:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	108-90-7	
Chloroethane	ND	ug/kg	9.6	1		12/21/13 18:33	75-00-3	
Chloroform	ND	ug/kg	4.8	1		12/21/13 18:33	67-66-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-6**      **Lab ID: 92184006018**      Collected: 12/17/13 15:40      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.6	1		12/21/13 18:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/21/13 18:33	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/21/13 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.6	1		12/21/13 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		12/21/13 18:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/21/13 18:33	87-68-3	
2-Hexanone	ND	ug/kg	48.0	1		12/21/13 18:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/21/13 18:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/21/13 18:33	99-87-6	
Methylene Chloride	ND	ug/kg	19.2	1		12/21/13 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.0	1		12/21/13 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/21/13 18:33	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/21/13 18:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/21/13 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/21/13 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/21/13 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	95-63-6	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-6**      **Lab ID: 92184006018**      Collected: 12/17/13 15:40      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	108-67-8	
Vinyl acetate	ND	ug/kg	48.0	1		12/21/13 18:33	108-05-4	
Vinyl chloride	ND	ug/kg	9.6	1		12/21/13 18:33	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		12/21/13 18:33	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1		12/21/13 18:33	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		12/21/13 18:33	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	96	%	70-130	1		12/21/13 18:33	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/21/13 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	146	%	70-132	1		12/21/13 18:33	17060-07-0	S0
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>11.6</b>	%	0.10	1		12/20/13 08:45		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-7**      **Lab ID: 92184006019**      Collected: 12/17/13 15:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	83-32-9	
Acenaphthylene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	208-96-8	
Aniline	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	62-53-3	
Anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-12-7	
Benzo(a)anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	56-55-3	
Benzo(a)pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	65-85-0	
Benzyl alcohol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	101-55-3	
Butylbenzylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	59-50-7	
4-Chloroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	108-60-1	
2-Chloronaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-58-7	
2-Chlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	7005-72-3	
Chrysene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	53-70-3	
Dibenzofuran	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-83-2	
Diethylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	105-67-9	
Dimethylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	131-11-3	
Di-n-butylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	606-20-2	
Di-n-octylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	117-81-7	
Fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	206-44-0	
Fluorene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	87-68-3	
Hexachlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	77-47-4	
Hexachloroethane	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-7**      **Lab ID: 92184006019**      Collected: 12/17/13 15:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	78-59-1	
1-Methylnaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	90-12-0	
2-Methylnaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17		
Naphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	99-09-2	
4-Nitroaniline	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	100-01-6	
Nitrobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	98-95-3	
2-Nitrophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	87-86-5	
Phenanthrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	85-01-8	
Phenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	108-95-2	
Pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	61 %		23-110	1	12/19/13 13:00	12/20/13 22:17	4165-60-0	
2-Fluorobiphenyl (S)	66 %		30-110	1	12/19/13 13:00	12/20/13 22:17	321-60-8	
Terphenyl-d14 (S)	64 %		28-110	1	12/19/13 13:00	12/20/13 22:17	1718-51-0	
Phenol-d6 (S)	47 %		22-110	1	12/19/13 13:00	12/20/13 22:17	13127-88-3	
2-Fluorophenol (S)	43 %		13-110	1	12/19/13 13:00	12/20/13 22:17	367-12-4	
2,4,6-Tribromophenol (S)	42 %		27-110	1	12/19/13 13:00	12/20/13 22:17	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.0	1		12/21/13 18:53	67-64-1	
Benzene	ND	ug/kg	4.7	1		12/21/13 18:53	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/21/13 18:53	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		12/21/13 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.0	1		12/21/13 18:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/21/13 18:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		12/21/13 18:53	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/21/13 18:53	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-7**      **Lab ID: 92184006019**      Collected: 12/17/13 15:55      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.4	1		12/21/13 18:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/21/13 18:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		12/21/13 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/21/13 18:53	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/21/13 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		12/21/13 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		12/21/13 18:53	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/21/13 18:53	87-68-3	
2-Hexanone	ND	ug/kg	47.0	1		12/21/13 18:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		12/21/13 18:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/21/13 18:53	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		12/21/13 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.0	1		12/21/13 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/21/13 18:53	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		12/21/13 18:53	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/21/13 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/21/13 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-7 Lab ID: 92184006019 Collected: 12/17/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-67-8	
Vinyl acetate	ND	ug/kg	47.0	1		12/21/13 18:53	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		12/21/13 18:53	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		12/21/13 18:53	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		12/21/13 18:53	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		12/21/13 18:53	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	98	%	70-130	1		12/21/13 18:53	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/21/13 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		12/21/13 18:53	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	15.6	%	0.10	1		12/20/13 17:06		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-8**      **Lab ID: 92184006020**      Collected: 12/17/13 16:10      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	83-32-9	
Acenaphthylene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	208-96-8	
Aniline	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	62-53-3	
Anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	56-55-3	
Benzo(a)pyrene	<b>403</b>	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	207-08-9	
Benzoic Acid	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	65-85-0	
Benzyl alcohol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	101-55-3	
Butylbenzylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	59-50-7	
4-Chloroaniline	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	108-60-1	
2-Chloronaphthalene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	91-58-7	
2-Chlorophenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	7005-72-3	
Chrysene	<b>400</b>	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	53-70-3	
Dibenzofuran	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	120-83-2	
Diethylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	105-67-9	
Dimethylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	131-11-3	
Di-n-butylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	606-20-2	
Di-n-octylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	117-81-7	
Fluoranthene	<b>855</b>	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	206-44-0	
Fluorene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	87-68-3	
Hexachlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	77-47-4	
Hexachloroethane	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-8**      **Lab ID: 92184006020**      Collected: 12/17/13 16:10      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**8270 MSSV Microwave**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

Isophorone	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	78-59-1	
1-Methylnaphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	90-12-0	
2-Methylnaphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44		
Naphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	91-20-3	
2-Nitroaniline	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	88-74-4	
3-Nitroaniline	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	99-09-2	
4-Nitroaniline	ND ug/kg		773	1	12/19/13 13:00	12/20/13 22:44	100-01-6	
Nitrobenzene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	98-95-3	
2-Nitrophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	88-75-5	
4-Nitrophenol	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	86-30-6	
Pentachlorophenol	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	87-86-5	
Phenanthrene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	85-01-8	
Phenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	108-95-2	
Pyrene	511 ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	63 %		23-110	1	12/19/13 13:00	12/20/13 22:44	4165-60-0	
2-Fluorobiphenyl (S)	67 %		30-110	1	12/19/13 13:00	12/20/13 22:44	321-60-8	
Terphenyl-d14 (S)	57 %		28-110	1	12/19/13 13:00	12/20/13 22:44	1718-51-0	
Phenol-d6 (S)	77 %		22-110	1	12/19/13 13:00	12/20/13 22:44	13127-88-3	
2-Fluorophenol (S)	68 %		13-110	1	12/19/13 13:00	12/20/13 22:44	367-12-4	
2,4,6-Tribromophenol (S)	68 %		27-110	1	12/19/13 13:00	12/20/13 22:44	118-79-6	

**8260/5035A Volatile Organics**

Analytical Method: EPA 8260

Acetone	136 ug/kg		87.1	1		12/21/13 19:12	67-64-1	A+
Benzene	ND ug/kg		4.4	1		12/21/13 19:12	71-43-2	
Bromobenzene	ND ug/kg		4.4	1		12/21/13 19:12	108-86-1	
Bromochloromethane	ND ug/kg		4.4	1		12/21/13 19:12	74-97-5	
Bromodichloromethane	ND ug/kg		4.4	1		12/21/13 19:12	75-27-4	
Bromoform	ND ug/kg		4.4	1		12/21/13 19:12	75-25-2	
Bromomethane	ND ug/kg		8.7	1		12/21/13 19:12	74-83-9	
2-Butanone (MEK)	ND ug/kg		87.1	1		12/21/13 19:12	78-93-3	
n-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	104-51-8	
sec-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	135-98-8	
tert-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	98-06-6	
Carbon tetrachloride	ND ug/kg		4.4	1		12/21/13 19:12	56-23-5	
Chlorobenzene	ND ug/kg		4.4	1		12/21/13 19:12	108-90-7	
Chloroethane	ND ug/kg		8.7	1		12/21/13 19:12	75-00-3	
Chloroform	ND ug/kg		4.4	1		12/21/13 19:12	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-8**      **Lab ID: 92184006020**      Collected: 12/17/13 16:10      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.7	1		12/21/13 19:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/21/13 19:12	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/21/13 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		12/21/13 19:12	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		12/21/13 19:12	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/21/13 19:12	87-68-3	
2-Hexanone	ND	ug/kg	43.5	1		12/21/13 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/21/13 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/21/13 19:12	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/21/13 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.5	1		12/21/13 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/21/13 19:12	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/21/13 19:12	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/21/13 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/21/13 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/21/13 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

Sample: S-12-8 Lab ID: 92184006020 Collected: 12/17/13 16:10 Received: 12/19/13 11:15 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	108-67-8	
Vinyl acetate	ND	ug/kg	43.5	1		12/21/13 19:12	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		12/21/13 19:12	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/21/13 19:12	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		12/21/13 19:12	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		12/21/13 19:12	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	95	%	70-130	1		12/21/13 19:12	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		12/21/13 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-132	1		12/21/13 19:12	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	14.6	%	0.10	1		12/20/13 17:06		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-9**      **Lab ID: 92184006021**      Collected: 12/17/13 16:25      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	83-32-9	
Acenaphthylene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	208-96-8	
Aniline	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	62-53-3	
Anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	207-08-9	
Benzoic Acid	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	65-85-0	
Benzyl alcohol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	59-50-7	
4-Chloroaniline	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	91-58-7	
2-Chlorophenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	7005-72-3	
Chrysene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	53-70-3	
Dibenzofuran	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	120-83-2	
Diethylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	105-67-9	
Dimethylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	117-81-7	
Fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	206-44-0	
Fluorene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	77-47-4	
Hexachloroethane	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-9**      **Lab ID: 92184006021**      Collected: 12/17/13 16:25      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**8270 MSSV Microwave**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

Isophorone	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	78-59-1	
1-Methylnaphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	90-12-0	
2-Methylnaphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11		
Naphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	91-20-3	
2-Nitroaniline	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	88-74-4	
3-Nitroaniline	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	99-09-2	
4-Nitroaniline	ND ug/kg		801	1	12/19/13 13:00	12/20/13 23:11	100-01-6	
Nitrobenzene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	98-95-3	
2-Nitrophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	88-75-5	
4-Nitrophenol	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	86-30-6	
Pentachlorophenol	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	87-86-5	
Phenanthrene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	85-01-8	
Phenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	108-95-2	
Pyrene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	64 %		23-110	1	12/19/13 13:00	12/20/13 23:11	4165-60-0	
2-Fluorobiphenyl (S)	71 %		30-110	1	12/19/13 13:00	12/20/13 23:11	321-60-8	
Terphenyl-d14 (S)	75 %		28-110	1	12/19/13 13:00	12/20/13 23:11	1718-51-0	
Phenol-d6 (S)	65 %		22-110	1	12/19/13 13:00	12/20/13 23:11	13127-88-3	
2-Fluorophenol (S)	59 %		13-110	1	12/19/13 13:00	12/20/13 23:11	367-12-4	
2,4,6-Tribromophenol (S)	78 %		27-110	1	12/19/13 13:00	12/20/13 23:11	118-79-6	

**8260/5035A Volatile Organics**

Analytical Method: EPA 8260

Acetone	<b>272</b> ug/kg		104	1		12/21/13 19:32	67-64-1	A+
Benzene	ND ug/kg		5.2	1		12/21/13 19:32	71-43-2	
Bromobenzene	ND ug/kg		5.2	1		12/21/13 19:32	108-86-1	
Bromochloromethane	ND ug/kg		5.2	1		12/21/13 19:32	74-97-5	
Bromodichloromethane	ND ug/kg		5.2	1		12/21/13 19:32	75-27-4	
Bromoform	ND ug/kg		5.2	1		12/21/13 19:32	75-25-2	
Bromomethane	ND ug/kg		10.4	1		12/21/13 19:32	74-83-9	
2-Butanone (MEK)	ND ug/kg		104	1		12/21/13 19:32	78-93-3	
n-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	104-51-8	
sec-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	135-98-8	
tert-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	98-06-6	
Carbon tetrachloride	ND ug/kg		5.2	1		12/21/13 19:32	56-23-5	
Chlorobenzene	ND ug/kg		5.2	1		12/21/13 19:32	108-90-7	
Chloroethane	ND ug/kg		10.4	1		12/21/13 19:32	75-00-3	
Chloroform	ND ug/kg		5.2	1		12/21/13 19:32	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-12-9**      **Lab ID: 92184006021**      Collected: 12/17/13 16:25      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	10.4	1		12/21/13 19:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		12/21/13 19:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		12/21/13 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		12/21/13 19:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		12/21/13 19:32	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		12/21/13 19:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1		12/21/13 19:32	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		12/21/13 19:32	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		12/21/13 19:32	87-68-3	
2-Hexanone	ND	ug/kg	51.8	1		12/21/13 19:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		12/21/13 19:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		12/21/13 19:32	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		12/21/13 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.8	1		12/21/13 19:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		12/21/13 19:32	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		12/21/13 19:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	103-65-1	
Styrene	ND	ug/kg	5.2	1		12/21/13 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	127-18-4	
Toluene	ND	ug/kg	5.2	1		12/21/13 19:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		12/21/13 19:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-9 Lab ID: 92184006021 Collected: 12/17/13 16:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	108-67-8	
Vinyl acetate	ND	ug/kg	51.8	1		12/21/13 19:32	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1		12/21/13 19:32	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		12/21/13 19:32	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1		12/21/13 19:32	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		12/21/13 19:32	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	95	%	70-130	1		12/21/13 19:32	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		12/21/13 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		12/21/13 19:32	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	17.6	%	0.10	1		12/20/13 17:06		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-1**      **Lab ID: 92184006022**      Collected: 12/17/13 16:35      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	83-32-9	
Acenaphthylene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	208-96-8	
Aniline	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	62-53-3	
Anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	65-85-0	
Benzyl alcohol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	101-55-3	
Butylbenzylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	59-50-7	
4-Chloroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	108-60-1	
2-Chloronaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-58-7	
2-Chlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	7005-72-3	
Chrysene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	53-70-3	
Dibenzofuran	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-83-2	
Diethylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	105-67-9	
Dimethylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	131-11-3	
Di-n-butylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	606-20-2	
Di-n-octylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	117-81-7	
Fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	206-44-0	
Fluorene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	87-68-3	
Hexachlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	77-47-4	
Hexachloroethane	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-1**      **Lab ID: 92184006022**      Collected: 12/17/13 16:35      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	78-59-1	
1-Methylnaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37		
Naphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	99-09-2	
4-Nitroaniline	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	100-01-6	
Nitrobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	98-95-3	
2-Nitrophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	87-86-5	
Phenanthrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	85-01-8	
Phenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	108-95-2	
Pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	45 %		23-110	1	12/19/13 13:00	12/20/13 23:37	4165-60-0	
2-Fluorobiphenyl (S)	48 %		30-110	1	12/19/13 13:00	12/20/13 23:37	321-60-8	
Terphenyl-d14 (S)	53 %		28-110	1	12/19/13 13:00	12/20/13 23:37	1718-51-0	
Phenol-d6 (S)	45 %		22-110	1	12/19/13 13:00	12/20/13 23:37	13127-88-3	
2-Fluorophenol (S)	42 %		13-110	1	12/19/13 13:00	12/20/13 23:37	367-12-4	
2,4,6-Tribromophenol (S)	41 %		27-110	1	12/19/13 13:00	12/20/13 23:37	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	87.4	1		12/21/13 19:51	67-64-1	
Benzene	ND	ug/kg	4.4	1		12/21/13 19:51	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-27-4	
Bromoform	ND	ug/kg	4.4	1		12/21/13 19:51	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		12/21/13 19:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.4	1		12/21/13 19:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		12/21/13 19:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		12/21/13 19:51	75-00-3	
Chloroform	ND	ug/kg	4.4	1		12/21/13 19:51	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-1**      **Lab ID: 92184006022**      Collected: 12/17/13 16:35      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.7	1		12/21/13 19:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/21/13 19:51	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/21/13 19:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		12/21/13 19:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		12/21/13 19:51	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/21/13 19:51	87-68-3	
2-Hexanone	ND	ug/kg	43.7	1		12/21/13 19:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/21/13 19:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/21/13 19:51	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		12/21/13 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.7	1		12/21/13 19:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/21/13 19:51	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/21/13 19:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/21/13 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/21/13 19:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

**Sample: S-8-1**      **Lab ID: 92184006022**      Collected: 12/17/13 16:35      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-67-8	
Vinyl acetate	ND	ug/kg	43.7	1		12/21/13 19:51	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		12/21/13 19:51	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/21/13 19:51	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		12/21/13 19:51	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		12/21/13 19:51	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	70-130	1		12/21/13 19:51	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/21/13 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	70-132	1		12/21/13 19:51	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.8</b>	%	0.10	1		12/20/13 17:06		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-2**      **Lab ID: 92184006023**      Collected: 12/18/13 08:55      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	83-32-9	
Acenaphthylene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	208-96-8	
Aniline	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	62-53-3	
Anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	207-08-9	
Benzoic Acid	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	65-85-0	
Benzyl alcohol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	59-50-7	
4-Chloroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	108-60-1	
2-Chloronaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-58-7	
2-Chlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	7005-72-3	
Chrysene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	53-70-3	
Dibenzofuran	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-83-2	
Diethylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	105-67-9	
Dimethylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	117-81-7	
Fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	206-44-0	
Fluorene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	77-47-4	
Hexachloroethane	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-2**      **Lab ID: 92184006023**      Collected: 12/18/13 08:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04		
Naphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	99-09-2	
4-Nitroaniline	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	100-01-6	
Nitrobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	98-95-3	
2-Nitrophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	86-30-6	
Pentachlorophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	87-86-5	
Phenanthrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	85-01-8	
Phenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	108-95-2	
Pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	62 %		23-110	1	12/19/13 13:00	12/21/13 00:04	4165-60-0	
2-Fluorobiphenyl (S)	64 %		30-110	1	12/19/13 13:00	12/21/13 00:04	321-60-8	
Terphenyl-d14 (S)	61 %		28-110	1	12/19/13 13:00	12/21/13 00:04	1718-51-0	
Phenol-d6 (S)	63 %		22-110	1	12/19/13 13:00	12/21/13 00:04	13127-88-3	
2-Fluorophenol (S)	61 %		13-110	1	12/19/13 13:00	12/21/13 00:04	367-12-4	
2,4,6-Tribromophenol (S)	62 %		27-110	1	12/19/13 13:00	12/21/13 00:04	118-79-6	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.3	1		12/24/13 15:58	67-64-1	
Benzene	ND	ug/kg	4.9	1		12/24/13 15:58	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-27-4	
Bromoform	ND	ug/kg	4.9	1		12/24/13 15:58	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		12/24/13 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.3	1		12/24/13 15:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		12/24/13 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		12/24/13 15:58	75-00-3	
Chloroform	ND	ug/kg	4.9	1		12/24/13 15:58	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-2**      **Lab ID: 92184006023**      Collected: 12/18/13 08:55      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.7	1		12/24/13 15:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		12/24/13 15:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		12/24/13 15:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		12/24/13 15:58	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		12/24/13 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		12/24/13 15:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		12/24/13 15:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		12/24/13 15:58	87-68-3	
2-Hexanone	ND	ug/kg	48.6	1		12/24/13 15:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		12/24/13 15:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		12/24/13 15:58	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	1		12/24/13 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.6	1		12/24/13 15:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		12/24/13 15:58	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		12/24/13 15:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	103-65-1	
Styrene	ND	ug/kg	4.9	1		12/24/13 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	127-18-4	
Toluene	ND	ug/kg	4.9	1		12/24/13 15:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

**Sample: S-8-2**      **Lab ID: 92184006023**      Collected: 12/18/13 08:55      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-67-8	
Vinyl acetate	ND	ug/kg	48.6	1		12/24/13 15:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		12/24/13 15:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		12/24/13 15:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		12/24/13 15:58	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		12/24/13 15:58	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	99 %		70-130	1		12/24/13 15:58	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130	1		12/24/13 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		12/24/13 15:58	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>21.3 %</b>		0.10	1		12/20/13 17:06		

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-5**      **Lab ID: 92184006024**      Collected: 12/18/13 09:25      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Microwave</b>		Analytical Method: EPA 8270    Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	83-32-9	
Acenaphthylene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	208-96-8	
Aniline	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	62-53-3	
Anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	207-08-9	
Benzoic Acid	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	65-85-0	
Benzyl alcohol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	101-55-3	
Butylbenzylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	59-50-7	
4-Chloroaniline	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	108-60-1	
2-Chloronaphthalene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	91-58-7	
2-Chlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	7005-72-3	
Chrysene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	53-70-3	
Dibenzofuran	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	120-83-2	
Diethylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	105-67-9	
Dimethylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	131-11-3	
Di-n-butylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	606-20-2	
Di-n-octylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	117-81-7	
Fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	206-44-0	
Fluorene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	87-68-3	
Hexachlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	77-47-4	
Hexachloroethane	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	193-39-5	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-5**      **Lab ID: 92184006024**      Collected: 12/18/13 09:25      Received: 12/19/13 11:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**8270 MSSV Microwave**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

Isophorone	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	78-59-1	
1-Methylnaphthalene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	90-12-0	
2-Methylnaphthalene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31		
Naphthalene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	91-20-3	
2-Nitroaniline	ND ug/kg		2130	1	12/19/13 13:00	12/21/13 00:31	88-74-4	
3-Nitroaniline	ND ug/kg		2130	1	12/19/13 13:00	12/21/13 00:31	99-09-2	
4-Nitroaniline	ND ug/kg		853	1	12/19/13 13:00	12/21/13 00:31	100-01-6	
Nitrobenzene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	98-95-3	
2-Nitrophenol	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	88-75-5	
4-Nitrophenol	ND ug/kg		2130	1	12/19/13 13:00	12/21/13 00:31	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	86-30-6	
Pentachlorophenol	ND ug/kg		2130	1	12/19/13 13:00	12/21/13 00:31	87-86-5	
Phenanthrene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	85-01-8	
Phenol	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	108-95-2	
Pyrene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		426	1	12/19/13 13:00	12/21/13 00:31	88-06-2	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	55 %		23-110	1	12/19/13 13:00	12/21/13 00:31	4165-60-0	
2-Fluorobiphenyl (S)	49 %		30-110	1	12/19/13 13:00	12/21/13 00:31	321-60-8	
Terphenyl-d14 (S)	56 %		28-110	1	12/19/13 13:00	12/21/13 00:31	1718-51-0	
Phenol-d6 (S)	57 %		22-110	1	12/19/13 13:00	12/21/13 00:31	13127-88-3	
2-Fluorophenol (S)	54 %		13-110	1	12/19/13 13:00	12/21/13 00:31	367-12-4	
2,4,6-Tribromophenol (S)	61 %		27-110	1	12/19/13 13:00	12/21/13 00:31	118-79-6	

**8260/5035A Volatile Organics**

Analytical Method: EPA 8260

Acetone	<b>228</b> ug/kg		107	1		12/24/13 02:10	67-64-1	A+
Benzene	ND ug/kg		5.4	1		12/24/13 02:10	71-43-2	
Bromobenzene	ND ug/kg		5.4	1		12/24/13 02:10	108-86-1	
Bromochloromethane	ND ug/kg		5.4	1		12/24/13 02:10	74-97-5	
Bromodichloromethane	ND ug/kg		5.4	1		12/24/13 02:10	75-27-4	
Bromoform	ND ug/kg		5.4	1		12/24/13 02:10	75-25-2	
Bromomethane	ND ug/kg		10.7	1		12/24/13 02:10	74-83-9	
2-Butanone (MEK)	ND ug/kg		107	1		12/24/13 02:10	78-93-3	
n-Butylbenzene	ND ug/kg		5.4	1		12/24/13 02:10	104-51-8	
sec-Butylbenzene	ND ug/kg		5.4	1		12/24/13 02:10	135-98-8	
tert-Butylbenzene	ND ug/kg		5.4	1		12/24/13 02:10	98-06-6	
Carbon tetrachloride	ND ug/kg		5.4	1		12/24/13 02:10	56-23-5	
Chlorobenzene	ND ug/kg		5.4	1		12/24/13 02:10	108-90-7	
Chloroethane	ND ug/kg		10.7	1		12/24/13 02:10	75-00-3	
Chloroform	ND ug/kg		5.4	1		12/24/13 02:10	67-66-3	

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## ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

**Sample: S-8-5**      **Lab ID: 92184006024**      Collected: 12/18/13 09:25      Received: 12/19/13 11:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	10.7	1		12/24/13 02:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		12/24/13 02:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		12/24/13 02:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		12/24/13 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		12/24/13 02:10	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		12/24/13 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		12/24/13 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		12/24/13 02:10	108-20-3	
Ethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		12/24/13 02:10	87-68-3	
2-Hexanone	ND	ug/kg	53.7	1		12/24/13 02:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		12/24/13 02:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		12/24/13 02:10	99-87-6	
Methylene Chloride	ND	ug/kg	21.5	1		12/24/13 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.7	1		12/24/13 02:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		12/24/13 02:10	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		12/24/13 02:10	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	103-65-1	
Styrene	ND	ug/kg	5.4	1		12/24/13 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	127-18-4	
Toluene	ND	ug/kg	5.4	1		12/24/13 02:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		12/24/13 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	95-63-6	

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### ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

Sample: S-8-5 Lab ID: 92184006024 Collected: 12/18/13 09:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	108-67-8	
Vinyl acetate	ND	ug/kg	53.7	1		12/24/13 02:10	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		12/24/13 02:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		12/24/13 02:10	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		12/24/13 02:10	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		12/24/13 02:10	95-47-6	
<b>Surrogates</b>								
Toluene-d8 (S)	98 %		70-130	1		12/24/13 02:10	2037-26-5	
4-Bromofluorobenzene (S)	87 %		70-130	1		12/24/13 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		12/24/13 02:10	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	22.6 %		0.10	1		12/20/13 17:07		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

QC Batch: GCV/7649 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013

METHOD BLANK: 1113921 Matrix: Solid  
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/28/13 11:32	
4-Bromofluorobenzene (S)	%	100	70-167	12/28/13 11:32	

LABORATORY CONTROL SAMPLE: 1113922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.8	47.9	96	70-165	
4-Bromofluorobenzene (S)	%			98	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1113923 1113924

Parameter	Units	92183967004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Spike Conc.					
Gasoline Range Organics	mg/kg	ND	56.5	56.5	55.5	55.5	97	97	47-187	0	
4-Bromofluorobenzene (S)	%						102	95	70-167		

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**QUALITY CONTROL DATA**

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

QC Batch: GCV/7653 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
 Associated Lab Samples: 92184006014, 92184006015, 92184006016

METHOD BLANK: 1114163 Matrix: Solid  
 Associated Lab Samples: 92184006014, 92184006015, 92184006016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/31/13 04:06	
4-Bromofluorobenzene (S)	%	103	70-167	12/31/13 04:06	

LABORATORY CONTROL SAMPLE: 1114164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.7	46.9	94	70-165	
4-Bromofluorobenzene (S)	%			102	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1114165 1114166

Parameter	Units	92184006014		1114166		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Gasoline Range Organics	mg/kg	ND	46	46	44.5	39.5	97	86	47-187	12
4-Bromofluorobenzene (S)	%						102	101	70-167	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25308 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92184006010, 92184006011

METHOD BLANK: 1110867 Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,1-Trichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,2-Trichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,3-Trichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,3-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,3-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,4-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
2,2-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
2-Butanone (MEK)	ug/kg	ND	108	12/21/13 10:52	
2-Chlorotoluene	ug/kg	ND	5.4	12/21/13 10:52	
2-Hexanone	ug/kg	ND	54.1	12/21/13 10:52	
4-Chlorotoluene	ug/kg	ND	5.4	12/21/13 10:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	54.1	12/21/13 10:52	
Acetone	ug/kg	ND	108	12/21/13 10:52	
Benzene	ug/kg	ND	5.4	12/21/13 10:52	
Bromobenzene	ug/kg	ND	5.4	12/21/13 10:52	
Bromochloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Bromodichloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Bromoform	ug/kg	ND	5.4	12/21/13 10:52	
Bromomethane	ug/kg	ND	10.8	12/21/13 10:52	
Carbon tetrachloride	ug/kg	ND	5.4	12/21/13 10:52	
Chlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
Chloroethane	ug/kg	ND	10.8	12/21/13 10:52	
Chloroform	ug/kg	ND	5.4	12/21/13 10:52	
Chloromethane	ug/kg	ND	10.8	12/21/13 10:52	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
Dibromochloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Dibromomethane	ug/kg	ND	5.4	12/21/13 10:52	
Dichlorodifluoromethane	ug/kg	ND	10.8	12/21/13 10:52	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1110867

Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.4	12/21/13 10:52	
Ethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	12/21/13 10:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	12/21/13 10:52	
m&p-Xylene	ug/kg	ND	10.8	12/21/13 10:52	
Methyl-tert-butyl ether	ug/kg	ND	5.4	12/21/13 10:52	
Methylene Chloride	ug/kg	ND	21.6	12/21/13 10:52	
n-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
n-Propylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Naphthalene	ug/kg	ND	5.4	12/21/13 10:52	
o-Xylene	ug/kg	ND	5.4	12/21/13 10:52	
p-Isopropyltoluene	ug/kg	ND	5.4	12/21/13 10:52	
sec-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Styrene	ug/kg	ND	5.4	12/21/13 10:52	
tert-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Tetrachloroethene	ug/kg	ND	5.4	12/21/13 10:52	
Toluene	ug/kg	ND	5.4	12/21/13 10:52	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
Trichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
Trichlorofluoromethane	ug/kg	ND	5.4	12/21/13 10:52	
Vinyl acetate	ug/kg	ND	54.1	12/21/13 10:52	
Vinyl chloride	ug/kg	ND	10.8	12/21/13 10:52	
Xylene (Total)	ug/kg	ND	10.8	12/21/13 10:52	
1,2-Dichloroethane-d4 (S)	%	89	70-132	12/21/13 10:52	
4-Bromofluorobenzene (S)	%	105	70-130	12/21/13 10:52	
Toluene-d8 (S)	%	107	70-130	12/21/13 10:52	

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	52	54.2	104	70-131	
1,1,1-Trichloroethane	ug/kg	52	51.2	99	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	52	55.9	107	70-130	
1,1,2-Trichloroethane	ug/kg	52	55.0	106	70-132	
1,1-Dichloroethane	ug/kg	52	50.0	96	70-143	
1,1-Dichloroethene	ug/kg	52	49.7	96	70-137	
1,1-Dichloropropene	ug/kg	52	54.2	104	70-135	
1,2,3-Trichlorobenzene	ug/kg	52	55.0	106	69-153	
1,2,3-Trichloropropane	ug/kg	52	55.3	106	70-130	
1,2,4-Trichlorobenzene	ug/kg	52	55.9	108	55-171	
1,2,4-Trimethylbenzene	ug/kg	52	54.0	104	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	52	54.4	105	68-141	
1,2-Dibromoethane (EDB)	ug/kg	52	58.3	112	70-130	
1,2-Dichlorobenzene	ug/kg	52	53.2	102	70-140	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	52	49.9	96	70-137	
1,2-Dichloropropane	ug/kg	52	53.9	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	52	53.5	103	70-143	
1,3-Dichlorobenzene	ug/kg	52	51.8	100	70-144	
1,3-Dichloropropane	ug/kg	52	58.2	112	70-132	
1,4-Dichlorobenzene	ug/kg	52	53.3	103	70-142	
2,2-Dichloropropane	ug/kg	52	51.4	99	68-152	
2-Butanone (MEK)	ug/kg	104	100J	97	70-149	
2-Chlorotoluene	ug/kg	52	51.4	99	70-141	
2-Hexanone	ug/kg	104	115	111	70-149	
4-Chlorotoluene	ug/kg	52	53.5	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	104	106	102	70-153	
Acetone	ug/kg	104	98.5J	95	70-157	
Benzene	ug/kg	52	54.9	106	70-130	
Bromobenzene	ug/kg	52	50.5	97	70-141	
Bromochloromethane	ug/kg	52	52.8	102	70-149	
Bromodichloromethane	ug/kg	52	51.0	98	70-130	
Bromoform	ug/kg	52	58.9	113	70-131	
Bromomethane	ug/kg	52	56.8	109	64-136	
Carbon tetrachloride	ug/kg	52	47.4	91	70-154	
Chlorobenzene	ug/kg	52	52.8	102	70-135	
Chloroethane	ug/kg	52	52.4	101	68-151	
Chloroform	ug/kg	52	52.0	100	70-130	
Chloromethane	ug/kg	52	46.7	90	70-132	
cis-1,2-Dichloroethene	ug/kg	52	50.0	96	70-140	
cis-1,3-Dichloropropene	ug/kg	52	52.6	101	70-137	
Dibromochloromethane	ug/kg	52	58.0	112	70-130	
Dibromomethane	ug/kg	52	51.7	99	70-136	
Dichlorodifluoromethane	ug/kg	52	55.0	106	36-148	
Diisopropyl ether	ug/kg	52	50.5	97	70-139	
Ethylbenzene	ug/kg	52	52.5	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	52	53.2	102	70-145	
Isopropylbenzene (Cumene)	ug/kg	52	55.7	107	70-141	
m&p-Xylene	ug/kg	104	109	105	70-140	
Methyl-tert-butyl ether	ug/kg	52	51.9	100	45-150	
Methylene Chloride	ug/kg	52	48.7	94	70-133	
n-Butylbenzene	ug/kg	52	56.4	109	65-155	
n-Propylbenzene	ug/kg	52	54.7	105	70-148	
Naphthalene	ug/kg	52	54.9	106	70-148	
o-Xylene	ug/kg	52	55.2	106	70-141	
p-Isopropyltoluene	ug/kg	52	54.5	105	70-148	
sec-Butylbenzene	ug/kg	52	54.8	106	70-145	
Styrene	ug/kg	52	56.4	109	70-138	
tert-Butylbenzene	ug/kg	52	54.1	104	70-143	
Tetrachloroethene	ug/kg	52	56.1	108	70-140	
Toluene	ug/kg	52	49.2	95	70-130	
trans-1,2-Dichloroethene	ug/kg	52	49.1	94	70-136	
trans-1,3-Dichloropropene	ug/kg	52	53.0	102	70-138	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	52	50.3	97	70-132	
Trichlorofluoromethane	ug/kg	52	53.7	103	69-134	
Vinyl acetate	ug/kg	104	146	141	24-161	
Vinyl chloride	ug/kg	52	53.1	102	55-140	
Xylene (Total)	ug/kg	156	164	105	70-141	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			93	70-130	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25319 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

METHOD BLANK: 1111204 Matrix: Solid  
 Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,1-Trichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,2-Trichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,3-Trichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,3-Trichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,2,4-Trichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,4-Trimethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,3,5-Trimethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,3-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,3-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,4-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
2,2-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
2-Butanone (MEK)	ug/kg	ND	102	12/21/13 13:19	
2-Chlorotoluene	ug/kg	ND	5.1	12/21/13 13:19	
2-Hexanone	ug/kg	ND	50.9	12/21/13 13:19	
4-Chlorotoluene	ug/kg	ND	5.1	12/21/13 13:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.9	12/21/13 13:19	
Acetone	ug/kg	ND	102	12/21/13 13:19	
Benzene	ug/kg	ND	5.1	12/21/13 13:19	
Bromobenzene	ug/kg	ND	5.1	12/21/13 13:19	
Bromochloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Bromodichloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Bromoform	ug/kg	ND	5.1	12/21/13 13:19	
Bromomethane	ug/kg	ND	10.2	12/21/13 13:19	
Carbon tetrachloride	ug/kg	ND	5.1	12/21/13 13:19	
Chlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
Chloroethane	ug/kg	ND	10.2	12/21/13 13:19	
Chloroform	ug/kg	ND	5.1	12/21/13 13:19	
Chloromethane	ug/kg	ND	10.2	12/21/13 13:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
Dibromochloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Dibromomethane	ug/kg	ND	5.1	12/21/13 13:19	
Dichlorodifluoromethane	ug/kg	ND	10.2	12/21/13 13:19	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1111204

Matrix: Solid

Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.1	12/21/13 13:19	
Ethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Hexachloro-1,3-butadiene	ug/kg	ND	5.1	12/21/13 13:19	
Isopropylbenzene (Cumene)	ug/kg	ND	5.1	12/21/13 13:19	
m&p-Xylene	ug/kg	ND	10.2	12/21/13 13:19	
Methyl-tert-butyl ether	ug/kg	ND	5.1	12/21/13 13:19	
Methylene Chloride	ug/kg	ND	20.4	12/21/13 13:19	
n-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
n-Propylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Naphthalene	ug/kg	ND	5.1	12/21/13 13:19	
o-Xylene	ug/kg	ND	5.1	12/21/13 13:19	
p-Isopropyltoluene	ug/kg	ND	5.1	12/21/13 13:19	
sec-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Styrene	ug/kg	ND	5.1	12/21/13 13:19	
tert-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Tetrachloroethene	ug/kg	ND	5.1	12/21/13 13:19	
Toluene	ug/kg	ND	5.1	12/21/13 13:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
Trichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
Trichlorofluoromethane	ug/kg	ND	5.1	12/21/13 13:19	
Vinyl acetate	ug/kg	ND	50.9	12/21/13 13:19	
Vinyl chloride	ug/kg	ND	10.2	12/21/13 13:19	
Xylene (Total)	ug/kg	ND	10.2	12/21/13 13:19	
1,2-Dichloroethane-d4 (S)	%	122	70-132	12/21/13 13:19	
4-Bromofluorobenzene (S)	%	100	70-130	12/21/13 13:19	
Toluene-d8 (S)	%	97	70-130	12/21/13 13:19	

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	53.9	53.6	99	70-131	
1,1,1-Trichloroethane	ug/kg	53.9	59.5	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	53.9	55.9	104	70-130	
1,1,2-Trichloroethane	ug/kg	53.9	55.0	102	70-132	
1,1-Dichloroethane	ug/kg	53.9	58.9	109	70-143	
1,1-Dichloroethene	ug/kg	53.9	57.4	107	70-137	
1,1-Dichloropropene	ug/kg	53.9	61.4	114	70-135	
1,2,3-Trichlorobenzene	ug/kg	53.9	56.8	105	69-153	
1,2,3-Trichloropropane	ug/kg	53.9	55.6	103	70-130	
1,2,4-Trichlorobenzene	ug/kg	53.9	54.2	101	55-171	
1,2,4-Trimethylbenzene	ug/kg	53.9	59.6	111	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	53.9	55.5	103	68-141	
1,2-Dibromoethane (EDB)	ug/kg	53.9	55.8	104	70-130	
1,2-Dichlorobenzene	ug/kg	53.9	53.6	99	70-140	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	53.9	59.0	110	70-137	
1,2-Dichloropropane	ug/kg	53.9	55.8	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	53.9	58.8	109	70-143	
1,3-Dichlorobenzene	ug/kg	53.9	53.6	99	70-144	
1,3-Dichloropropane	ug/kg	53.9	59.1	110	70-132	
1,4-Dichlorobenzene	ug/kg	53.9	54.3	101	70-142	
2,2-Dichloropropane	ug/kg	53.9	60.9	113	68-152	
2-Butanone (MEK)	ug/kg	108	114	106	70-149	
2-Chlorotoluene	ug/kg	53.9	55.3	103	70-141	
2-Hexanone	ug/kg	108	102	95	70-149	
4-Chlorotoluene	ug/kg	53.9	58.7	109	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	108	103	96	70-153	
Acetone	ug/kg	108	98.4J	91	70-157	
Benzene	ug/kg	53.9	57.3	106	70-130	
Bromobenzene	ug/kg	53.9	58.0	108	70-141	
Bromochloromethane	ug/kg	53.9	52.0	96	70-149	
Bromodichloromethane	ug/kg	53.9	55.6	103	70-130	
Bromoform	ug/kg	53.9	51.3	95	70-131	
Bromomethane	ug/kg	53.9	65.2	121	64-136	
Carbon tetrachloride	ug/kg	53.9	53.2	99	70-154	
Chlorobenzene	ug/kg	53.9	56.0	104	70-135	
Chloroethane	ug/kg	53.9	62.7	116	68-151	
Chloroform	ug/kg	53.9	59.8	111	70-130	
Chloromethane	ug/kg	53.9	64.3	119	70-132	
cis-1,2-Dichloroethene	ug/kg	53.9	56.3	104	70-140	
cis-1,3-Dichloropropene	ug/kg	53.9	56.1	104	70-137	
Dibromochloromethane	ug/kg	53.9	53.8	100	70-130	
Dibromomethane	ug/kg	53.9	54.4	101	70-136	
Dichlorodifluoromethane	ug/kg	53.9	59.7	111	36-148	
Diisopropyl ether	ug/kg	53.9	55.9	104	70-139	
Ethylbenzene	ug/kg	53.9	55.3	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	53.9	58.5	109	70-145	
Isopropylbenzene (Cumene)	ug/kg	53.9	57.3	106	70-141	
m&p-Xylene	ug/kg	108	112	104	70-140	
Methyl-tert-butyl ether	ug/kg	53.9	61.3	114	45-150	
Methylene Chloride	ug/kg	53.9	54.1	100	70-133	
n-Butylbenzene	ug/kg	53.9	58.9	109	65-155	
n-Propylbenzene	ug/kg	53.9	58.9	109	70-148	
Naphthalene	ug/kg	53.9	53.2	99	70-148	
o-Xylene	ug/kg	53.9	55.9	104	70-141	
p-Isopropyltoluene	ug/kg	53.9	56.2	104	70-148	
sec-Butylbenzene	ug/kg	53.9	59.0	110	70-145	
Styrene	ug/kg	53.9	56.7	105	70-138	
tert-Butylbenzene	ug/kg	53.9	56.3	104	70-143	
Tetrachloroethene	ug/kg	53.9	51.8	96	70-140	
Toluene	ug/kg	53.9	52.5	97	70-130	
trans-1,2-Dichloroethene	ug/kg	53.9	58.4	108	70-136	
trans-1,3-Dichloropropene	ug/kg	53.9	57.0	106	70-138	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	53.9	51.8	96	70-132	
Trichlorofluoromethane	ug/kg	53.9	64.3	119	69-134	
Vinyl acetate	ug/kg	108	132	123	24-161	
Vinyl chloride	ug/kg	53.9	59.1	110	55-140	
Xylene (Total)	ug/kg	162	168	104	70-141	
1,2-Dichloroethane-d4 (S)	%			110	70-132	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1111382

Parameter	Units	92184231005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND 30.1	24.2	81	49-180	
Benzene	ug/kg		ND 30.1	27.7	92	50-166	
Chlorobenzene	ug/kg		ND 30.1	30.8	103	43-169	
Toluene	ug/kg		ND 30.1	26.9	90	52-163	
Trichloroethene	ug/kg		ND 30.1	27.4	91	49-167	
1,2-Dichloroethane-d4 (S)	%				129	70-132	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	77.1J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	122	123		10
4-Bromofluorobenzene (S)	%	97	100		12

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1  
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	98	97	8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch:	MSV/25343	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	92184006024		

METHOD BLANK: 1111846 Matrix: Solid

Associated Lab Samples: 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,1-Trichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,2-Trichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,3-Trichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,3-Trichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,2,4-Trichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,4-Trimethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,3,5-Trimethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,3-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,3-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,4-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
2,2-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
2-Butanone (MEK)	ug/kg	ND	97.8	12/23/13 17:21	
2-Chlorotoluene	ug/kg	ND	4.9	12/23/13 17:21	
2-Hexanone	ug/kg	ND	48.9	12/23/13 17:21	
4-Chlorotoluene	ug/kg	ND	4.9	12/23/13 17:21	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	48.9	12/23/13 17:21	
Acetone	ug/kg	ND	97.8	12/23/13 17:21	
Benzene	ug/kg	ND	4.9	12/23/13 17:21	
Bromobenzene	ug/kg	ND	4.9	12/23/13 17:21	
Bromochloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Bromodichloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Bromoform	ug/kg	ND	4.9	12/23/13 17:21	
Bromomethane	ug/kg	ND	9.8	12/23/13 17:21	
Carbon tetrachloride	ug/kg	ND	4.9	12/23/13 17:21	
Chlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
Chloroethane	ug/kg	ND	9.8	12/23/13 17:21	
Chloroform	ug/kg	ND	4.9	12/23/13 17:21	
Chloromethane	ug/kg	ND	9.8	12/23/13 17:21	
cis-1,2-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
cis-1,3-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
Dibromochloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Dibromomethane	ug/kg	ND	4.9	12/23/13 17:21	
Dichlorodifluoromethane	ug/kg	ND	9.8	12/23/13 17:21	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1111846

Matrix: Solid

Associated Lab Samples: 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	4.9	12/23/13 17:21	
Ethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Hexachloro-1,3-butadiene	ug/kg	ND	4.9	12/23/13 17:21	
Isopropylbenzene (Cumene)	ug/kg	ND	4.9	12/23/13 17:21	
m&p-Xylene	ug/kg	ND	9.8	12/23/13 17:21	
Methyl-tert-butyl ether	ug/kg	ND	4.9	12/23/13 17:21	
Methylene Chloride	ug/kg	ND	19.6	12/23/13 17:21	
n-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
n-Propylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Naphthalene	ug/kg	ND	4.9	12/23/13 17:21	
o-Xylene	ug/kg	ND	4.9	12/23/13 17:21	
p-Isopropyltoluene	ug/kg	ND	4.9	12/23/13 17:21	
sec-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Styrene	ug/kg	ND	4.9	12/23/13 17:21	
tert-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Tetrachloroethene	ug/kg	ND	4.9	12/23/13 17:21	
Toluene	ug/kg	ND	4.9	12/23/13 17:21	
trans-1,2-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
trans-1,3-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
Trichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
Trichlorofluoromethane	ug/kg	ND	4.9	12/23/13 17:21	
Vinyl acetate	ug/kg	ND	48.9	12/23/13 17:21	
Vinyl chloride	ug/kg	ND	9.8	12/23/13 17:21	
Xylene (Total)	ug/kg	ND	9.8	12/23/13 17:21	
1,2-Dichloroethane-d4 (S)	%	122	70-132	12/23/13 17:21	
4-Bromofluorobenzene (S)	%	102	70-130	12/23/13 17:21	
Toluene-d8 (S)	%	100	70-130	12/23/13 17:21	

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50.4	53.7	107	70-131	
1,1,1-Trichloroethane	ug/kg	50.4	58.9	117	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50.4	60.8	121	70-130	
1,1,2-Trichloroethane	ug/kg	50.4	54.2	107	70-132	
1,1-Dichloroethane	ug/kg	50.4	56.1	111	70-143	
1,1-Dichloroethene	ug/kg	50.4	55.6	110	70-137	
1,1-Dichloropropene	ug/kg	50.4	57.0	113	70-135	
1,2,3-Trichlorobenzene	ug/kg	50.4	50.5	100	69-153	
1,2,3-Trichloropropane	ug/kg	50.4	62.0	123	70-130	
1,2,4-Trichlorobenzene	ug/kg	50.4	47.4	94	55-171	
1,2,4-Trimethylbenzene	ug/kg	50.4	53.5	106	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50.4	60.2	120	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50.4	58.7	116	70-130	
1,2-Dichlorobenzene	ug/kg	50.4	49.7	99	70-140	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	50.4	65.5	130	70-137	
1,2-Dichloropropane	ug/kg	50.4	52.3	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	50.4	52.3	104	70-143	
1,3-Dichlorobenzene	ug/kg	50.4	47.5	94	70-144	
1,3-Dichloropropane	ug/kg	50.4	60.1	119	70-132	
1,4-Dichlorobenzene	ug/kg	50.4	48.3	96	70-142	
2,2-Dichloropropane	ug/kg	50.4	56.6	112	68-152	
2-Butanone (MEK)	ug/kg	101	114	113	70-149	
2-Chlorotoluene	ug/kg	50.4	49.5	98	70-141	
2-Hexanone	ug/kg	101	114	113	70-149	
4-Chlorotoluene	ug/kg	50.4	52.0	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	101	109	108	70-153	
Acetone	ug/kg	101	120	119	70-157	
Benzene	ug/kg	50.4	51.7	103	70-130	
Bromobenzene	ug/kg	50.4	54.1	107	70-141	
Bromochloromethane	ug/kg	50.4	51.9	103	70-149	
Bromodichloromethane	ug/kg	50.4	54.4	108	70-130	
Bromoform	ug/kg	50.4	53.4	106	70-131	
Bromomethane	ug/kg	50.4	65.6	130	64-136	
Carbon tetrachloride	ug/kg	50.4	52.3	104	70-154	
Chlorobenzene	ug/kg	50.4	52.9	105	70-135	
Chloroethane	ug/kg	50.4	57.1	113	68-151	
Chloroform	ug/kg	50.4	56.8	113	70-130	
Chloromethane	ug/kg	50.4	59.2	117	70-132	
cis-1,2-Dichloroethene	ug/kg	50.4	56.6	112	70-140	
cis-1,3-Dichloropropene	ug/kg	50.4	53.0	105	70-137	
Dibromochloromethane	ug/kg	50.4	56.1	111	70-130	
Dibromomethane	ug/kg	50.4	55.1	109	70-136	
Dichlorodifluoromethane	ug/kg	50.4	54.7	109	36-148	
Diisopropyl ether	ug/kg	50.4	51.4	102	70-139	
Ethylbenzene	ug/kg	50.4	52.0	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	50.4	52.2	103	70-145	
Isopropylbenzene (Cumene)	ug/kg	50.4	54.3	108	70-141	
m&p-Xylene	ug/kg	101	107	106	70-140	
Methyl-tert-butyl ether	ug/kg	50.4	61.2	121	45-150	
Methylene Chloride	ug/kg	50.4	53.8	107	70-133	
n-Butylbenzene	ug/kg	50.4	50.4	100	65-155	
n-Propylbenzene	ug/kg	50.4	51.6	102	70-148	
Naphthalene	ug/kg	50.4	51.9	103	70-148	
o-Xylene	ug/kg	50.4	53.0	105	70-141	
p-Isopropyltoluene	ug/kg	50.4	50.0	99	70-148	
sec-Butylbenzene	ug/kg	50.4	52.8	105	70-145	
Styrene	ug/kg	50.4	53.2	106	70-138	
tert-Butylbenzene	ug/kg	50.4	51.2	102	70-143	
Tetrachloroethene	ug/kg	50.4	49.7	99	70-140	
Toluene	ug/kg	50.4	49.5	98	70-130	
trans-1,2-Dichloroethene	ug/kg	50.4	54.8	109	70-136	
trans-1,3-Dichloropropene	ug/kg	50.4	55.3	110	70-138	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	50.4	46.5	92	70-132	
Trichlorofluoromethane	ug/kg	50.4	65.5	130	69-134	
Vinyl acetate	ug/kg	101	106	105	24-161	
Vinyl chloride	ug/kg	50.4	55.7	110	55-140	
Xylene (Total)	ug/kg	151	160	106	70-141	
1,2-Dichloroethane-d4 (S)	%			125	70-132	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1112266

Parameter	Units	92184090001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND	42.9	37.1	86	49-180
Benzene	ug/kg		ND	42.9	37.3	87	50-166
Chlorobenzene	ug/kg		ND	42.9	35.2	82	43-169
Toluene	ug/kg		ND	42.9	32.4	74	52-163
Trichloroethene	ug/kg		ND	42.9	32.3	75	49-167
1,2-Dichloroethane-d4 (S)	%					104	70-132
4-Bromofluorobenzene (S)	%					96	70-130
Toluene-d8 (S)	%					99	70-130

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	228	96.2	81	A+,R1
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	110	106		16
4-Bromofluorobenzene (S)	%	87	92		8

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1  
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	98	96	14	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1112341

Matrix: Solid

Associated Lab Samples: 92184006023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.6	12/24/13 11:24	
Ethylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Hexachloro-1,3-butadiene	ug/kg	ND	5.6	12/24/13 11:24	
Isopropylbenzene (Cumene)	ug/kg	ND	5.6	12/24/13 11:24	
m&p-Xylene	ug/kg	ND	11.2	12/24/13 11:24	
Methyl-tert-butyl ether	ug/kg	ND	5.6	12/24/13 11:24	
Methylene Chloride	ug/kg	ND	22.5	12/24/13 11:24	
n-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
n-Propylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Naphthalene	ug/kg	ND	5.6	12/24/13 11:24	
o-Xylene	ug/kg	ND	5.6	12/24/13 11:24	
p-Isopropyltoluene	ug/kg	ND	5.6	12/24/13 11:24	
sec-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Styrene	ug/kg	ND	5.6	12/24/13 11:24	
tert-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Tetrachloroethene	ug/kg	ND	5.6	12/24/13 11:24	
Toluene	ug/kg	ND	5.6	12/24/13 11:24	
trans-1,2-Dichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
trans-1,3-Dichloropropene	ug/kg	ND	5.6	12/24/13 11:24	
Trichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
Trichlorofluoromethane	ug/kg	ND	5.6	12/24/13 11:24	
Vinyl acetate	ug/kg	ND	56.2	12/24/13 11:24	
Vinyl chloride	ug/kg	ND	11.2	12/24/13 11:24	
Xylene (Total)	ug/kg	ND	11.2	12/24/13 11:24	
1,2-Dichloroethane-d4 (S)	%	110	70-132	12/24/13 11:24	
4-Bromofluorobenzene (S)	%	100	70-130	12/24/13 11:24	
Toluene-d8 (S)	%	99	70-130	12/24/13 11:24	

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	51.7	55.1	107	70-131	
1,1,1-Trichloroethane	ug/kg	51.7	56.6	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	51.7	62.7	121	70-130	
1,1,2-Trichloroethane	ug/kg	51.7	56.0	108	70-132	
1,1-Dichloroethane	ug/kg	51.7	59.7	116	70-143	
1,1-Dichloroethene	ug/kg	51.7	58.2	113	70-137	
1,1-Dichloropropene	ug/kg	51.7	61.4	119	70-135	
1,2,3-Trichlorobenzene	ug/kg	51.7	53.5	104	69-153	
1,2,3-Trichloropropane	ug/kg	51.7	63.4	123	70-130	
1,2,4-Trichlorobenzene	ug/kg	51.7	51.3	99	55-171	
1,2,4-Trimethylbenzene	ug/kg	51.7	54.7	106	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	51.7	55.8	108	68-141	
1,2-Dibromoethane (EDB)	ug/kg	51.7	61.3	119	70-130	
1,2-Dichlorobenzene	ug/kg	51.7	50.5	98	70-140	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	51.7	61.2	118	70-137	
1,2-Dichloropropane	ug/kg	51.7	54.8	106	70-133	
1,3,5-Trimethylbenzene	ug/kg	51.7	53.7	104	70-143	
1,3-Dichlorobenzene	ug/kg	51.7	49.4	96	70-144	
1,3-Dichloropropane	ug/kg	51.7	63.6	123	70-132	
1,4-Dichlorobenzene	ug/kg	51.7	50.6	98	70-142	
2,2-Dichloropropane	ug/kg	51.7	57.7	112	68-152	
2-Butanone (MEK)	ug/kg	103	131	127	70-149	
2-Chlorotoluene	ug/kg	51.7	49.8	96	70-141	
2-Hexanone	ug/kg	103	123	119	70-149	
4-Chlorotoluene	ug/kg	51.7	54.3	105	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	103	113	109	70-153	
Acetone	ug/kg	103	119	115	70-157	
Benzene	ug/kg	51.7	55.1	107	70-130	
Bromobenzene	ug/kg	51.7	55.3	107	70-141	
Bromochloromethane	ug/kg	51.7	52.4	101	70-149	
Bromodichloromethane	ug/kg	51.7	52.8	102	70-130	
Bromoform	ug/kg	51.7	53.1	103	70-131	
Bromomethane	ug/kg	51.7	55.4	107	64-136	
Carbon tetrachloride	ug/kg	51.7	49.0	95	70-154	
Chlorobenzene	ug/kg	51.7	55.4	107	70-135	
Chloroethane	ug/kg	51.7	57.6	112	68-151	
Chloroform	ug/kg	51.7	57.3	111	70-130	
Chloromethane	ug/kg	51.7	61.1	118	70-132	
cis-1,2-Dichloroethene	ug/kg	51.7	58.7	114	70-140	
cis-1,3-Dichloropropene	ug/kg	51.7	54.0	105	70-137	
Dibromochloromethane	ug/kg	51.7	57.1	111	70-130	
Dibromomethane	ug/kg	51.7	54.4	105	70-136	
Dichlorodifluoromethane	ug/kg	51.7	43.3	84	36-148	
Diisopropyl ether	ug/kg	51.7	59.0	114	70-139	
Ethylbenzene	ug/kg	51.7	54.1	105	70-137	
Hexachloro-1,3-butadiene	ug/kg	51.7	51.4	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	51.7	56.5	109	70-141	
m&p-Xylene	ug/kg	103	110	106	70-140	
Methyl-tert-butyl ether	ug/kg	51.7	63.9	124	45-150	
Methylene Chloride	ug/kg	51.7	53.7	104	70-133	
n-Butylbenzene	ug/kg	51.7	54.7	106	65-155	
n-Propylbenzene	ug/kg	51.7	54.3	105	70-148	
Naphthalene	ug/kg	51.7	55.5	107	70-148	
o-Xylene	ug/kg	51.7	54.6	106	70-141	
p-Isopropyltoluene	ug/kg	51.7	51.0	99	70-148	
sec-Butylbenzene	ug/kg	51.7	54.5	106	70-145	
Styrene	ug/kg	51.7	55.3	107	70-138	
tert-Butylbenzene	ug/kg	51.7	50.9	99	70-143	
Tetrachloroethene	ug/kg	51.7	52.2	101	70-140	
Toluene	ug/kg	51.7	49.2	95	70-130	
trans-1,2-Dichloroethene	ug/kg	51.7	59.0	114	70-136	
trans-1,3-Dichloropropene	ug/kg	51.7	55.8	108	70-138	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	51.7	49.2	95	70-132	
Trichlorofluoromethane	ug/kg	51.7	60.9	118	69-134	
Vinyl acetate	ug/kg	103	140	135	24-161	
Vinyl chloride	ug/kg	51.7	54.5	105	55-140	
Xylene (Total)	ug/kg	155	164	106	70-141	
1,2-Dichloroethane-d4 (S)	%			120	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1112885

Parameter	Units	92184377003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND 31.7	35.8	113	49-180	
Benzene	ug/kg		ND 31.7	33.4	106	50-166	
Chlorobenzene	ug/kg		ND 31.7	30.2	95	43-169	
Toluene	ug/kg		ND 31.7	27.6	87	52-163	
Trichloroethene	ug/kg		ND 31.7	28.7	91	49-167	
1,2-Dichloroethane-d4 (S)	%				118	70-132	
4-Bromofluorobenzene (S)	%				86	70-130	
Toluene-d8 (S)	%				93	70-130	

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	218	170	25	A+
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		IO
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	118	143	21	S2
4-Bromofluorobenzene (S)	%	92	83	8	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1  
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	96	92	2	

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**QUALITY CONTROL DATA**

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

QC Batch: OEXT/25264 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV  
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013, 92184006014, 92184006015, 92184006016

METHOD BLANK: 1109337 Matrix: Solid  
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013, 92184006014, 92184006015, 92184006016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	12/20/13 23:31	
n-Pentacosane (S)	%	75	41-119	12/20/13 23:31	

LABORATORY CONTROL SAMPLE: 1109338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	51.1	77	49-113	
n-Pentacosane (S)	%			89	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109339 1109340

Parameter	Units	92184006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	24.2	82.3	82.3	52.6	47.9	35	29	10-146	9	
n-Pentacosane (S)	%						68	60	41-119		

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: OEXT/25257 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave  
 Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020,  
 92184006021, 92184006022, 92184006023, 92184006024

METHOD BLANK: 1109029 Matrix: Solid  
 Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020,  
 92184006021, 92184006022, 92184006023, 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,2-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,3-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,4-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1-Methylnaphthalene	ug/kg	ND	330	12/20/13 14:41	
2,4,5-Trichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4,6-Trichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dimethylphenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dinitrophenol	ug/kg	ND	1650	12/20/13 14:41	
2,4-Dinitrotoluene	ug/kg	ND	330	12/20/13 14:41	
2,6-Dinitrotoluene	ug/kg	ND	330	12/20/13 14:41	
2-Chloronaphthalene	ug/kg	ND	330	12/20/13 14:41	
2-Chlorophenol	ug/kg	ND	330	12/20/13 14:41	
2-Methylnaphthalene	ug/kg	ND	330	12/20/13 14:41	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	12/20/13 14:41	
2-Nitroaniline	ug/kg	ND	1650	12/20/13 14:41	
2-Nitrophenol	ug/kg	ND	330	12/20/13 14:41	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	12/20/13 14:41	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	12/20/13 14:41	
3-Nitroaniline	ug/kg	ND	1650	12/20/13 14:41	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	12/20/13 14:41	
4-Bromophenylphenyl ether	ug/kg	ND	330	12/20/13 14:41	
4-Chloro-3-methylphenol	ug/kg	ND	660	12/20/13 14:41	
4-Chloroaniline	ug/kg	ND	1650	12/20/13 14:41	
4-Chlorophenylphenyl ether	ug/kg	ND	330	12/20/13 14:41	
4-Nitroaniline	ug/kg	ND	660	12/20/13 14:41	
4-Nitrophenol	ug/kg	ND	1650	12/20/13 14:41	
Acenaphthene	ug/kg	ND	330	12/20/13 14:41	
Acenaphthylene	ug/kg	ND	330	12/20/13 14:41	
Aniline	ug/kg	ND	330	12/20/13 14:41	
Anthracene	ug/kg	ND	330	12/20/13 14:41	
Benzo(a)anthracene	ug/kg	ND	330	12/20/13 14:41	
Benzo(a)pyrene	ug/kg	ND	330	12/20/13 14:41	
Benzo(b)fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Benzo(g,h,i)perylene	ug/kg	ND	330	12/20/13 14:41	
Benzo(k)fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Benzoic Acid	ug/kg	ND	1650	12/20/13 14:41	
Benzyl alcohol	ug/kg	ND	660	12/20/13 14:41	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	12/20/13 14:41	
bis(2-Chloroethyl) ether	ug/kg	ND	330	12/20/13 14:41	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1109029

Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022, 92184006023, 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	12/20/13 14:41	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	12/20/13 14:41	
Butylbenzylphthalate	ug/kg	ND	330	12/20/13 14:41	
Chrysene	ug/kg	ND	330	12/20/13 14:41	
Di-n-butylphthalate	ug/kg	ND	330	12/20/13 14:41	
Di-n-octylphthalate	ug/kg	ND	330	12/20/13 14:41	
Dibenz(a,h)anthracene	ug/kg	ND	330	12/20/13 14:41	
Dibenzofuran	ug/kg	ND	330	12/20/13 14:41	
Diethylphthalate	ug/kg	ND	330	12/20/13 14:41	
Dimethylphthalate	ug/kg	ND	330	12/20/13 14:41	
Fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Fluorene	ug/kg	ND	330	12/20/13 14:41	
Hexachloro-1,3-butadiene	ug/kg	ND	330	12/20/13 14:41	
Hexachlorobenzene	ug/kg	ND	330	12/20/13 14:41	
Hexachlorocyclopentadiene	ug/kg	ND	330	12/20/13 14:41	
Hexachloroethane	ug/kg	ND	330	12/20/13 14:41	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	12/20/13 14:41	
Isophorone	ug/kg	ND	330	12/20/13 14:41	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	12/20/13 14:41	
N-Nitrosodimethylamine	ug/kg	ND	330	12/20/13 14:41	
N-Nitrosodiphenylamine	ug/kg	ND	330	12/20/13 14:41	
Naphthalene	ug/kg	ND	330	12/20/13 14:41	
Nitrobenzene	ug/kg	ND	330	12/20/13 14:41	
Pentachlorophenol	ug/kg	ND	1650	12/20/13 14:41	
Phenanthrene	ug/kg	ND	330	12/20/13 14:41	
Phenol	ug/kg	ND	330	12/20/13 14:41	
Pyrene	ug/kg	ND	330	12/20/13 14:41	
2,4,6-Tribromophenol (S)	%	39	27-110	12/20/13 14:41	
2-Fluorobiphenyl (S)	%	43	30-110	12/20/13 14:41	
2-Fluorophenol (S)	%	46	13-110	12/20/13 14:41	
Nitrobenzene-d5 (S)	%	41	23-110	12/20/13 14:41	
Phenol-d6 (S)	%	48	22-110	12/20/13 14:41	
Terphenyl-d14 (S)	%	68	28-110	12/20/13 14:41	

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	682	41	39-101	
1,2-Dichlorobenzene	ug/kg	1670	720	43	36-110	
1,3-Dichlorobenzene	ug/kg	1670	684	41	35-110	
1,4-Dichlorobenzene	ug/kg	1670	711	43	35-110	
1-Methylnaphthalene	ug/kg	1670	797	48	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	937	56	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	782	47	45-111	

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenol	ug/kg	1670	744	45	51-116	L2
2,4-Dimethylphenol	ug/kg	1670	819	49	42-103	
2,4-Dinitrophenol	ug/kg	8330	4990	60	28-103	
2,4-Dinitrotoluene	ug/kg	1670	1200	72	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1070	64	48-112	
2-Chloronaphthalene	ug/kg	1670	699	42	44-105	L2
2-Chlorophenol	ug/kg	1670	812	49	36-110	
2-Methylnaphthalene	ug/kg	1670	834	50	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	842	51	39-101	
2-Nitroaniline	ug/kg	3330	2140	64	44-111	
2-Nitrophenol	ug/kg	1670	732	44	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	856	51	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2090	63	10-150	
3-Nitroaniline	ug/kg	3330	2240	67	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2080	62	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	972	58	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	1750	53	43-127	
4-Chloroaniline	ug/kg	3330	1690	51	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	936	56	44-115	
4-Nitroaniline	ug/kg	3330	2430	73	37-111	
4-Nitrophenol	ug/kg	8330	5780	69	21-152	
Acenaphthene	ug/kg	1670	829	50	38-117	
Acenaphthylene	ug/kg	1670	836	50	46-107	
Aniline	ug/kg	1670	775	47	29-110	
Anthracene	ug/kg	1670	1100	66	50-110	
Benzo(a)anthracene	ug/kg	1670	1100	66	47-116	
Benzo(a)pyrene	ug/kg	1670	1180	71	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1090	65	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1120	67	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1080	65	45-117	
Benzoic Acid	ug/kg	8330	3130	38	16-110	
Benzyl alcohol	ug/kg	3330	1440	43	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	778	47	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	817	49	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	792	48	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1010	61	35-116	
Butylbenzylphthalate	ug/kg	1670	1030	62	38-110	
Chrysene	ug/kg	1670	1150	69	49-110	
Di-n-butylphthalate	ug/kg	1670	1030	62	43-109	
Di-n-octylphthalate	ug/kg	1670	1040	62	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1170	70	43-116	
Dibenzofuran	ug/kg	1670	793	48	45-106	
Diethylphthalate	ug/kg	1670	1000	60	41-114	
Dimethylphthalate	ug/kg	1670	958	57	43-110	
Fluoranthene	ug/kg	1670	1170	70	50-114	
Fluorene	ug/kg	1670	943	57	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	681	41	28-111	
Hexachlorobenzene	ug/kg	1670	928	56	46-120	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorocyclopentadiene	ug/kg	1670	746	45	18-119	
Hexachloroethane	ug/kg	1670	690	41	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1190	72	42-115	
Isophorone	ug/kg	1670	872	52	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	738	44	43-104	
N-Nitrosodimethylamine	ug/kg	1670	695	42	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	880	53	48-113	
Naphthalene	ug/kg	1670	799	48	41-110	
Nitrobenzene	ug/kg	1670	821	49	38-110	
Pentachlorophenol	ug/kg	3330	1920	58	32-128	
Phenanthrene	ug/kg	1670	1070	64	50-110	
Phenol	ug/kg	1670	840	50	28-106	
Pyrene	ug/kg	1670	1080	65	45-114	
2,4,6-Tribromophenol (S)	%			68	27-110	
2-Fluorobiphenyl (S)	%			48	30-110	
2-Fluorophenol (S)	%			49	13-110	
Nitrobenzene-d5 (S)	%			46	23-110	
Phenol-d6 (S)	%			51	22-110	
Terphenyl-d14 (S)	%			64	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109031 1109032

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92183618003 Result	Spike Conc.	Spike Conc.	MS Result					
1,2,4-Trichlorobenzene	ug/kg	ND	2240	2240	994	955	44	43	18-119	4
1,2-Dichlorobenzene	ug/kg	ND	2240	2240	1100	1070	49	48	50-110	3 M1
1,3-Dichlorobenzene	ug/kg	ND	2240	2240	1030	1040	46	47	27-110	1
1,4-Dichlorobenzene	ug/kg	ND	2240	2240	1060	1080	47	48	28-110	2
1-Methylnaphthalene	ug/kg	ND	2240	2240	1320	1100	59	49	24-116	18
2,4,5-Trichlorophenol	ug/kg	ND	2240	2240	1260	1000	56	45	28-110	23
2,4,6-Trichlorophenol	ug/kg	ND	2240	2240	1030	761	46	34	17-117	30
2,4-Dichlorophenol	ug/kg	ND	2240	2240	1110	810	49	36	21-128	31
2,4-Dimethylphenol	ug/kg	ND	2240	2240	874	560	39	25	10-120	44
2,4-Dinitrophenol	ug/kg	ND	11200	11200	6510	5570	58	50	10-107	16
2,4-Dinitrotoluene	ug/kg	ND	2240	2240	1580	1180	71	53	36-109	29
2,6-Dinitrotoluene	ug/kg	ND	2240	2240	1490	1170	67	52	32-110	24
2-Chloronaphthalene	ug/kg	ND	2240	2240	975	863	44	39	30-107	12
2-Chlorophenol	ug/kg	ND	2240	2240	1150	972	52	43	14-106	17
2-Methylnaphthalene	ug/kg	ND	2240	2240	1360	1160	61	52	10-135	16
2-Methylphenol(o-Cresol)	ug/kg	ND	2240	2240	1110	720	50	32	10-124	43 2g,R1
2-Nitroaniline	ug/kg	ND	4460	4460	3090	2770	69	62	26-116	11
2-Nitrophenol	ug/kg	ND	2240	2240	1170	1080	52	48	28-103	8
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2240	2240	1200	769	54	34	10-109	44
3,3'-Dichlorobenzidine	ug/kg	ND	4460	4460	1730J	278J	39	6	10-150	M0
3-Nitroaniline	ug/kg	ND	4460	4460	3010	1660J	67	37	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	ND	4460	4460	2650	2040	59	46	13-121	26

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### QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Parameter	92183618003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
4-Bromophenylphenyl ether	ug/kg	ND	2240	2240	1220	929	55	42	31-109	27				
4-Chloro-3-methylphenol	ug/kg	ND	4460	4460	2620	1650	59	37	13-128	46				
4-Chloroaniline	ug/kg	ND	4460	4460	2460	1790J	55	40	18-102					
4-Chlorophenylphenyl ether	ug/kg	ND	2240	2240	1270	968	57	43	29-112	27				
4-Nitroaniline	ug/kg	ND	4460	4460	3170	1470	71	33	16-111	74				
4-Nitrophenol	ug/kg	ND	11200	11200	7020	6250	63	56	14-135	12				
Acenaphthene	ug/kg	ND	2240	2240	1170	978	53	44	26-114	18				
Acenaphthylene	ug/kg	ND	2240	2240	1230	1010	55	45	32-108	19				
Aniline	ug/kg	ND	2240	2240	618	467	28	21	10-107	28				
Anthracene	ug/kg	ND	2240	2240	1330	975	60	44	32-111	31				
Benzo(a)anthracene	ug/kg	ND	2240	2240	1290	870	58	39	25-117	39				
Benzo(a)pyrene	ug/kg	ND	2240	2240	1300	816	58	37	25-106	46				
Benzo(b)fluoranthene	ug/kg	ND	2240	2240	1210	774	54	35	24-110	44				
Benzo(g,h,i)perylene	ug/kg	ND	2240	2240	1140	792	51	35	19-112	36				
Benzo(k)fluoranthene	ug/kg	ND	2240	2240	1190	791	53	35	24-114	40				
Benzoic Acid	ug/kg	ND	11200	11200	1960J	2610	18	23	10-110					
Benzyl alcohol	ug/kg	ND	4460	4460	2690	2370	60	53	24-106	13				
bis(2-Chloroethoxy)methane	ug/kg	ND	2240	2240	1170	1040	53	47	13-119	12				
bis(2-Chloroethyl) ether	ug/kg	ND	2240	2240	1230	1210	55	54	10-134	2				
bis(2-Chloroisopropyl) ether	ug/kg	ND	2240	2240	1220	1130	55	51	10-113	7				
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2240	2240	1210	756	51	30	10-125	46				
Butylbenzylphthalate	ug/kg	ND	2240	2240	1260	805	56	36	18-110	44				
Chrysene	ug/kg	ND	2240	2240	1330	912	60	41	30-110	37				
Di-n-butylphthalate	ug/kg	ND	2240	2240	1210	808	54	36	19-112	39				
Di-n-octylphthalate	ug/kg	ND	2240	2240	1280	793	57	35	17-105	47				
Dibenz(a,h)anthracene	ug/kg	ND	2240	2240	1240	814	55	36	23-111	41				
Dibenzofuran	ug/kg	ND	2240	2240	1090	877	49	39	35-103	22				
Diethylphthalate	ug/kg	ND	2240	2240	1250	900	56	40	27-113	32				
Dimethylphthalate	ug/kg	ND	2240	2240	1260	992	56	44	26-111	24				
Fluoranthene	ug/kg	ND	2240	2240	1390	974	62	44	33-109	35				
Fluorene	ug/kg	ND	2240	2240	1300	1010	58	45	32-113	26				
Hexachloro-1,3-butadiene	ug/kg	ND	2240	2240	915	919	41	41	16-116	0				
Hexachlorobenzene	ug/kg	ND	2240	2240	1090	872	49	39	27-120	22				
Hexachlorocyclopentadiene	ug/kg	ND	2240	2240	859	782	38	35	10-108	9				
Hexachloroethane	ug/kg	ND	2240	2240	1030	1010	46	45	10-117	2				
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2240	2240	1250	817	56	37	10-122	41				
Isophorone	ug/kg	ND	2240	2240	1560	1300	70	58	28-114	18				
N-Nitroso-di-n-propylamine	ug/kg	ND	2240	2240	1400	1100	62	49	27-113	24				
N-Nitrosodimethylamine	ug/kg	ND	2240	2240	973	994	44	44	10-109	2				
N-Nitrosodiphenylamine	ug/kg	ND	2240	2240	961	611	43	27	10-128	45				
Naphthalene	ug/kg	ND	2240	2240	1170	1110	53	50	25-110	6				
Nitrobenzene	ug/kg	ND	2240	2240	1160	1170	52	52	18-114	1				
Pentachlorophenol	ug/kg	ND	4460	4460	2530	1730J	57	39	10-122					
Phenanthrene	ug/kg	ND	2240	2240	1320	996	59	45	30-114	28				
Phenol	ug/kg	ND	2240	2240	1050	805	47	36	11-102	26				
Pyrene	ug/kg	ND	2240	2240	1320	936	59	42	25-116	34				
2,4,6-Tribromophenol (S)	%						53	33	27-110					

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**QUALITY CONTROL DATA**

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

Parameter	Units	1109031		1109032		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92183618003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
2-Fluorobiphenyl (S)	%					47	41	30-110		
2-Fluorophenol (S)	%					44	37	13-110		
Nitrobenzene-d5 (S)	%					50	47	23-110		
Phenol-d6 (S)	%					51	38	22-110		
Terphenyl-d14 (S)	%					56	38	28-110		

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**QUALITY CONTROL DATA**

Project: NCDT01413 WBS33507.1.1  
 Pace Project No.: 92184006

QC Batch: PMST/6109 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92184006019, 92184006020, 92184006021, 92184006022, 92184006023, 92184006024

SAMPLE DUPLICATE: 1110278

Parameter	Units	92184075013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.3	16.2	12	

SAMPLE DUPLICATE: 1110279

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.6	23.2	3	

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.

2g This flag applies to all compounds with RPD greater than 30%.

A+ The reaction of the soil preservative, sodium bisulfate, is known to react with humic acid in soils to produce ketones. Based upon method blank results, the laboratory feels the ketones in this sample are a result of that reaction.

IO The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92184006001	S-18-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006002	S-18-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006003	S-18-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006004	S-19-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006005	S-20-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006006	S-20-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006007	S-11-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006008	S-11-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006009	S-11-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006013	S-12-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006014	S-12-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006015	S-12-4	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006016	S-12-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006001	S-18-3	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006002	S-18-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006003	S-18-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006004	S-19-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006005	S-20-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006006	S-20-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006007	S-11-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006008	S-11-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006009	S-11-3	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006013	S-12-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006014	S-12-2	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006015	S-12-4	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006016	S-12-3	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006010	S-13-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006011	S-13-2	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006012	S-15-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006017	S-12-5	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006018	S-12-6	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006019	S-12-7	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006020	S-12-8	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006021	S-12-9	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006022	S-8-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006023	S-8-2	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006024	S-8-5	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006010	S-13-1	EPA 8260	MSV/25308		
92184006011	S-13-2	EPA 8260	MSV/25308		
92184006012	S-15-1	EPA 8260	MSV/25319		
92184006017	S-12-5	EPA 8260	MSV/25319		
92184006018	S-12-6	EPA 8260	MSV/25319		
92184006019	S-12-7	EPA 8260	MSV/25319		
92184006020	S-12-8	EPA 8260	MSV/25319		
92184006021	S-12-9	EPA 8260	MSV/25319		
92184006022	S-8-1	EPA 8260	MSV/25319		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92184006023	S-8-2	EPA 8260	MSV/25355		
92184006024	S-8-5	EPA 8260	MSV/25343		
92184006001	S-18-3	ASTM D2974-87	PMST/6106		
92184006002	S-18-2	ASTM D2974-87	PMST/6106		
92184006003	S-18-1	ASTM D2974-87	PMST/6106		
92184006004	S-19-1	ASTM D2974-87	PMST/6106		
92184006005	S-20-2	ASTM D2974-87	PMST/6106		
92184006006	S-20-1	ASTM D2974-87	PMST/6106		
92184006007	S-11-1	ASTM D2974-87	PMST/6106		
92184006008	S-11-2	ASTM D2974-87	PMST/6106		
92184006009	S-11-3	ASTM D2974-87	PMST/6106		
92184006010	S-13-1	ASTM D2974-87	PMST/6106		
92184006011	S-13-2	ASTM D2974-87	PMST/6106		
92184006012	S-15-1	ASTM D2974-87	PMST/6106		
92184006013	S-12-1	ASTM D2974-87	PMST/6106		
92184006014	S-12-2	ASTM D2974-87	PMST/6106		
92184006015	S-12-4	ASTM D2974-87	PMST/6106		
92184006016	S-12-3	ASTM D2974-87	PMST/6106		
92184006017	S-12-5	ASTM D2974-87	PMST/6106		
92184006018	S-12-6	ASTM D2974-87	PMST/6106		
92184006019	S-12-7	ASTM D2974-87	PMST/6109		
92184006020	S-12-8	ASTM D2974-87	PMST/6109		
92184006021	S-12-9	ASTM D2974-87	PMST/6109		
92184006022	S-8-1	ASTM D2974-87	PMST/6109		
92184006023	S-8-2	ASTM D2974-87	PMST/6109		
92184006024	S-8-5	ASTM D2974-87	PMST/6109		

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Sample Condition Upon Receipt (SCUR)

Document Number:  
F-CHR-CS-03-rev.13

Issuing Authority:  
Pace Huntersville Quality Office

Client Name: General Eng. Consultants

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Optional  
Proj. Due Date:  
Proj. Name:

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1102 T1301    Type of Ice: Wet Blue None     Samples on ice, cooling process has begun

Temp Correction Factor    T1102: No Correction    T1301: No Correction

Corrected Cooler Temp.: 1.4 °C    Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: SD 12/14/13

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required?    Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: Jackson Co.

SCURF Review: AMB    Date: 12-19-13  
SRF Review: AMB    Date: 12-19-13

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

**WO# : 92184006**

92184006







