PRELIMINARY SITE ASSESSMENT
PARCEL 018, STATE PROJECT B-4490
WBS ELEMENT 33727.1.1, CUMBERLAND COUNTY

REPLACE BRIDGE NO. 116 OVER CXS RAILROAD, NORTH SOUTH RAILROAD, AND HILLSBORO STREET ON NC 24-210, FAYETTEVILLE, NORTH CAROLINA

Schnabel Project 11821014.33
June 10, 2014

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June 10, 2014

Mr. Mohammed A. Mulla, P.E., CPM, MCE
NCDOT, Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

RE:
State Project: B-4490
WBS Element: 33727.1.1
County: Cumberland
Description: Replace Bridge No. 116 over CSX Railroad, North South Railroad, and Hillsboro Street on NC 24-210 in Fayetteville

Subject: **Preliminary Site Assessment for Parcel 018, Fayetteville, NC**
Schnabel Engineering Project 11821014.33

Dear Mr. Mulla:

SCHNABEL ENGINEERING SOUTH, P.C. (Schnabel) is pleased to submit our report for this project. This study was performed in accordance with our proposal dated January 23, 2014 as authorized by the Notice to Proceed on January 24, 2014 and was conducted under our June 2, 2011 Agreement with the NCDOT.

We appreciate the opportunity to be of service for this project. Please call us if you have any questions regarding this report.

Sincerely,

SCHNABEL ENGINEERING SOUTH, P.C.

Benjamin L. Bradley, GIT
Project Scientist

Gregory B. Kuntz, LG
Senior Associate Scientist

BB/GK

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PRELIMINARY SITE ASSESSMENT FOR PARCEL 018

STATE PROJECT B-4490, WBS ELEMENT 33727.1.1

REPLACE BRIDGE NO. 116 OVER CSX RAILROAD, NORTH SOUTH RAILROAD, AND HILLSBORO STREET ON NC 24-210
FAYETTEVILLE, CUMBERLAND COUNTY, NORTH CAROLINA

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is replacing a bridge over CSX Railroad, North South Railroad, and Hillsboro Street on Highway 24/210 (W. Rowan Street) in the town of Fayetteville, located in Cumberland County, North Carolina. Acquisition of properties within the right-of-way (ROW) is necessary prior to road and bridge construction. Schnabel Engineering conducted Preliminary Site Assessments (PSAs) on 10 sites (thirteen parcels) located within the proposed ROW that are of concern to the NCDOT.

This report summarizes the results of field activities conducted during the PSA for the proposed property acquisition area (Study Area) identified by NCDOT as Parcel 018. The property is located at 528 Rowan Street and is a vacant property, currently owned by P&S Enterprises (Figure 1). The property line and topography are shown on Figure 2. The approximate NCDOT project limits that delineate the property acquisition area are shown on Figure 3.

The scope of work executed at the site was performed in general accordance with our cost proposal dated January 23, 2014 and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on January 24, 2014 under contract 7000012208, dated June 2, 2011.

2.0 BACKGROUND AND SITE DESCRIPTION

Structures are not located on Parcel 018. The surface of the proposed ROW is covered with grass, trees, a concrete pad, and small patches of exposed asphalt. Several utilities cross the site including buried water and storm sewer lines, and overhead electric lines are located along the ROW. The information regarding prior site use provided to Schnabel Engineering by NCDOT was that the parcel was formerly used as an automobile repair shop, suggesting that site operations may have generated waste oil and degreaser solvents. This PSA is for the investigation of the entire parcel. Photographs of the Study Area are presented in Appendix A.

3.0 FIELD METHODOLOGY

Prior to mobilizing to the site to conduct the field investigation, Schnabel Engineering contacted North Carolina One Call to locate underground utilities in the Study Area of the site.

Schnabel mobilized a geophysical crew to the site on January 29, 2014 and performed an electromagnetic survey (EM) of the subsurface in the proposed ROW area within the parcel. The Schnabel geophysical crew returned to the Study Area on February 10, 2014 to perform ground penetrating radar (GPR) survey with a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

After reviewing the background information and geophysical data, Schnabel returned to Parcel 018 on February 19, 2014 to conduct field screening of soils from within the Study Area. Four soil borings designated B-18-01 through B-18-04 were advanced by SAEDACCO of Fort Mill, SC along Rowan Street on February 19, 2014. The location of the soil borings are shown on Figure 3. The borings were advanced to a total depth of 10 to 12 feet below ground surface (bgs). Because groundwater samples collected during the February investigation indicated the presence of tetrachloroethene and trichloroethene at elevated levels, on May 15, 2014, Schnabel personnel returned again to collect soil

samples to investigate whether tetrachloroethene and trichloroethene were present in the site soil. A total of twelve additional borings were advanced on the Parcel 018 (B-18-1A, B-18-2A, B-18-3A, B-18-4A, and B-18-05 through B-18-12).

The borings drilled within the Study Area were advanced utilizing a track-mounted Geoprobe® (Model 7822-DT) with direct push probe technology. Soils for field screening were obtained from the borings using a MacroCore® sampler fitted with a new, single-use, five foot long disposable polyvinyl chloride (PVC) liner. A portion of each 2-foot interval was placed in a separate re-sealable plastic bag. These bags were sealed and placed at ambient temperature for field screening with a MiniRAE Plus photo ionization detector (PID). Volatiles were allowed to accumulate in the headspace of each bag for approximately 15 minutes, and then the headspace of each sealed bag was scanned with the PID. Headspace screening of the soil samples indicated a concentration that ranged from 0 to 0.3 ppm at each boring location at intervals of two, four, six, eight, ten, and twelve feet bgs (Table 1, Sampling Intervals and Field Volatile Measurements). The PID was calibrated on February 19 and May 15, 2014 in general accordance with the manufacturer's recommended calibration procedures. The PID readings were recorded with the soil descriptions and indications of staining or odors, if present. Logs for each boring are presented in Appendix C. Ultra Violet Fluorescence (UVF) was not performed at this parcel because very low PID readings were observed. Sample information was recorded on the Chain-of-Custody form and the samples were submitted for chemical analysis of diesel range organics (DRO) and gasoline range organics (GRO) by 8015, volatile organic compounds (VOCs) by EPA 8260B, semi-volatile organic compounds (SVOCs) by EPA 8270, MADEP EPH, MADEP VPH, and total metals (Cr and Pb) by 6010 with 3050B prep. At the completion of the sampling activities, the borings were backfilled with soil removed from the boring during sampling and/or bentonite chips.

Soils collected from borings within the Study Area generally consisted of orangish brown Silty Sand with Clay (SM) or gray Clayey Sand (SC). GPS coordinates for each boring were obtained using a Trimble Pro-XRS DGPS system (Appendix D) with coordinates reported in US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet.

A groundwater sample and duplicate were collected at B-18-01 using a peristaltic GeoPump 2 with a Teflon™-lined polyethylene tube on February 19, 2014. A groundwater sample was collected from this boring because it was advanced in a planned cut area for a proposed drainage easement. The water samples were placed in laboratory-supplied containers and stored on ice pending shipment to Pace Analytical in Hampstead, NC. Sample information was recorded on the Chain-of-Custody form and the samples were submitted for chemical analysis of chromium and lead by EPA Method 6010, EPA Method 625 with top 10 tentatively identified compounds (TICS), MADEP EPH and VPH, EPA Method 6200B, formaldehyde, and Method 8260.

4.0 GROUNDWATER MONITORING WELLS OR REMEDIATION WELLS

Groundwater monitoring wells and remediation wells were not observed within the proposed ROW or easement on this parcel.

5.0 DISCUSSION OF RESULTS

The geophysical survey conducted at the site did not indicate the presence of probable USTs on Parcel 018. The geophysical survey did indicate various magnetic anomalies and the presence of buried utility lines and conduits.

Chromium, tetrachloroethene, and trichloroethene were detected at concentrations that exceed the NC 2L Groundwater Quality Standards in B-18-01 and its duplicate (Duplicate-2). The results of the duplicate groundwater sample were similar to those of the parent sample, except tetrachloroethene was also detected as a TIC at a concentration of 5.1 ug/L which exceeds the NC 2L Groundwater Standards. Other constituents analyzed by the laboratory did not exceed regulatory levels. The Summary of Groundwater Laboratory Results is shown in Table 2. The laboratory report for the groundwater samples is presented in Appendix E.

Results of the May 15, 2014 soil investigation showed that tetrachloroethene was detected in B-18-08 (1-2 feet) slightly greater than the Soil to Groundwater maximum soil contaminant concentration (MSCC) and TPH-DRO was detected in B-18-10 (1-2 feet) above the TPH-DRO Action Level. Chromium was detected in B-18-03A (1-2 and 4-5 feet), B-18-04A (1-3 and 5-7 feet), B-18-05 (1-2 and 4-5 feet), B-18-06 (1-2 feet), B-18-08 (1-2 and 4-5 feet), B-19-08 (1-2 and 4-5 feet), B-18-10 (4-5 feet), B-18-11 (5-7 feet), and B-18-12 (1-3 and 5-7 feet) greater than the Soil to Groundwater MSCC. Chromium and lead were detected in all the soil samples indicating they are naturally occurring constituents in the site soil. The results of the duplicate soil sample were similar to those of the parent sample. Soil laboratory analytical results are summarized in Table 2A. The laboratory report for the soil samples is presented in Appendix F.

6.0 CONCLUSIONS

Anomalies were not observed in the EM or the GPR geophysical data at the subject property that is interpreted to be metallic USTs within about 6 feet of the ground surface.

Four soil borings on February 19, 2014 and 12 soil borings on May 15, 2014 were advanced to document soil conditions and to evaluate potential impact within the Study Area.

Tetrachloroethene and trichloroethene were detected in the groundwater sample from B-18-01 at 28.9 ug/L and 8.8 ug/L, respectively. Both of these constituents exceeded their NC 2L Groundwater Quality Standard.

Chromium was also detected in the groundwater at B-18-01 at 10.4 ug/L. This concentration exceeds the NC 2L Groundwater Quality Standard.

Tetrachloroethene was detected in the soil sample from B-18-08 (1-2 feet) at a concentration of 0.0075 mg/Kg, slightly above the 0.0074 mg/Kg Soil to Groundwater MSCC. Tetrachloroethene was detected below the Soil to Groundwater MSCC in B-18-08 (4-5 feet) detected. None of the soil samples exceeded the commercial/industrial MSCC.

TPH-DRO was detected in the soil sample from B-18-10 (1-2 feet) at a concentration of 16.4 mg/Kg, which is above the NCDENR TPH-DRO action level of 10 mg/Kg. TPH-DRO was detected in B-18-05 (1-2 feet), B-18-06 (1-2 feet), B-18-07 (1-2 feet), and B-18-08 (1-2 feet) below the action level. TPH-DRO was not detected in the deeper soil samples and MADEP EPH, TPH-GRO, and MADEP VPH were all non-detect in all of the shallow and deep soil samples.

Chromium was detected in all the soil samples between 1.0 and 14.0 mg/Kg. Several of the results exceeded the Soil to Groundwater MSCCs. None of the soil samples exceeded the commercial/industrial MSCC. Geochemical background levels of chromium in the Eastern United States show that the mean

range of chromium in soil is 33 mg/Kg and the range is 1 to 1,000 mg/Kg, suggesting that the concentration of chromium encountered on Parcel 018 may be naturally occurring and at background levels (Element Concentrations in Soils and Other Surficial Material of the Conterminous United States, Hansford Shacklette and Josephine Boerngen, US Geological Survey Professional Paper 1270, 1984).

7.0 RECOMMENDATIONS

Groundwater impacted with tetrachloroethene, trichloroethene and chromium were detected above the NC 2L standard at B-18-01. The groundwater was not sampled at any other location on site. Based on the regional topography and the likely groundwater flow direction, the groundwater in other portions of the site is also likely impacted. The likely groundwater flow direction and site soil analysis does not suggest that the site is the source of the tetrachloroethene or trichloroethene, although very low levels of tetrachloroethene were detected in B-18-08 topographically downgradient of B-18-01. The detection of chromium in all the soil samples suggests that the chromium detected in the groundwater sample at B-18-01 is most likely naturally occurring chromium detected as suspended soil within the groundwater sample. It is recommended that if groundwater is encountered during excavation on this parcel that dermal contact, inhalation and ingestion of VOCs by site workers be avoided and that any recovered groundwater be treated and disposed of properly.

Tetrachloroethene was detected in the site soil at B-18-08 (1-2 feet) and chromium was detected in several soil samples slightly greater than the Soil to Groundwater MSCC suggesting a possibility that leaching of this soil could result in impact to groundwater above the 2L standard. Care should be taken to prevent leaching of the site soil during excavation of this area. Detected tetrachloroethene and chromium concentrations are significantly below the commercial/industrial MSCC, suggesting a low likelihood of dermal, inhalation or ingestion exposure risk to site workers.

TPH-DRO was detected in the site soil at B-18-10 (1-2 feet) greater than the NCDENR Action Level. MADEP EPH was non-detect for all constituents at this location and at all other locations on site, suggesting that the TPH-DRO that is present is highly degraded and therefore presents a low likelihood of dermal, inhalation or ingestion exposure risk to site workers.

8.0 LIMITATIONS

This PSA was prepared for the use of the NCDOT. The scope of work performed at the site is limited to the tasks described in our cost proposal dated January 23, 2014. This report is not intended to represent an exhaustive research of all potential hazards that may exist. Schnabel makes no other declarations, or any express or implied warranty, as to the professional services provided under the terms of the agreement.

TABLES

TABLE 1
FEBRUARY, 2014 SAMPLING INTERVALS AND FIELD VOLATILE MEASUREMENTS
PARCEL 018
NCDOT B-4490, CUMBERLAND COUNTY

Depth Below Ground Surface	Soil Borings			
	B-18-01	B-18-02	B-18-03	B-18-04
0 - 2 feet	0.0	0.0	0.0	0.0
2 - 4 feet	0.0	0.0	0.0	0.0
4 - 6 feet	0.0	0.0	0.0	0.3
6 - 8 feet	0.0	0.0	0.0	0.0
8 - 10 feet	0.0	0.0	0.0	0.0
10 - 12 feet	0.0**	NS	NS	NS

Notes:

Shaded cells were submitted for laboratory analysis

NS: Not Screened

**: Water Sample Taken

Field volatile measurements obtained with a MiniRae Photo Ionization Detector

Measurements in parts per million (ppm)

MAY, 2014 SAMPLING INTERVALS AND FIELD VOLATILE MEASUREMENTS

Depth Below Ground Surface	Soil Borings											
	B-18-01A	B-18-02A	B-18-03A	B-18-04A	B-18-05	B-18-06	B-18-07	B-18-08	B-18-09	B-18-10	B-18-11	B-18-12
0 - 2 feet	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0
2 - 4 feet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
4 - 6 feet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 - 7 feet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

Field volatile measurements obtained with a MiniRae Photo Ionization Detector

Measurements in parts per million (ppm)

Table 2A
May 15, 2014 Summary of Soil Laboratory Results
Parcel 018
NCDOT B-4490, Cumberland County

Sample ID:	TPH-GRO and DRO Action Level	Soil to Groundwater MSCC	Commercial/ Industrial MSCC	B-18-01A (1-3 ft)	B-18-01A (5-7 ft)	B-18-02A (1-2 ft)	B-18-02A (4-5 ft)	B-18-03A (1-2 ft)	B-18-03A (4-5 ft)	B-18-04A (1-3 ft)	B-18-04A (5-7 ft)	B-18-05 (1-2 ft)	B-18-05 (4-5 ft)
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled Date:				5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014
TPH DRO EPA 8015/3546 prep													
Diesel Range Organics	10	NA	NA	NS	ND	NS	ND	NS	ND	ND	NS	6.3	NS
MADEP EPH													
Aliphatic (C09-C18)	NA	540	40,000	ND	ND	NS	ND	NS	ND	ND	NS	ND	NS
Aliphatic (C19-C36)	NA	NA	810,000	ND	ND	NS	ND	NS	ND	ND	NS	ND	NS
Aromatic (C11-C22)	NA	31	12,264	ND	ND	NS	ND	NS	ND	ND	NS	ND	NS
TPH GRO EPA 8015/5035/5030B prep													
Gasoline Range Organics	10	NA	NA	NS	ND	NS	ND	NS	ND	ND	NS	ND	NS
MADEP VPH													
Aliphatic (C05-C08)	NA	68	24,528	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatic (C09-C12)	NA	540	40,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic (C09-C10)	NA	31	12,264	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals 6010/3050 prep													
Chromium	NA	5.4	1,226	1.0	1.2	4.3	3.0	**11.1**	**11.4**	**8.5**	**7.1**	**9.6**	**13.7**
Lead	NA	270	400	1.2	1.6	28.8	10.4	11.7	5.5	19.7	28.3	7.5	8.5
SVOCs Method 8270/3546 prep													
Various	NA	Various	Various	NS	ND	NS	ND	NS	ND	ND	NS	ND	NS
VOCs Method 8260/5035A													
cis-1,2-Dichloroethene	NA	0.35	4,000	ND	ND	ND	ND	ND	ND	ND	0.0065	ND	ND
Tetrachloroethene	NA	0.0074	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Units in mg/Kg
ND: Not Detected
NS: Not sampled
NA: Not Applicable
MADEP: Massachussetts Department of Environmental Protection
Action Level and Maximum Soil Concentration Levels (MSCC)
from Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement
for UST Releases, March 1, 2007 Version Change 5, Effective December 1, 2013
Bold exceeds the standard

Table 2A
May 15, 2014 Summary of Soil Laboratory Results
Parcel 018
NCDOT B-4490, Cumberland County

Sample ID:	TPH-GRO and DRO Action Level	Soil to Groundwater MSCC	Commercial/ Industrial MSCC	B-18-06 (1-2 ft)	B-18-06 (4-5 ft)	B-18-07 (1-2 ft)	B-18-07 (4-5 ft)	B-18-08 (1-2 ft)	Dup-1	B-18-08 (4-5 ft)	B-18-09 (1-2 ft)	B-18-09 (4-5 ft)	B-18-10 (1-2 ft)
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled Date:				5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014
TPH DRO EPA 8015/3546 prep													
Diesel Range Organics	10	NA	NA	5.8	NS	6.7	NS	5.7	6.5	NS	ND	NS	**16.4**
MADEP EPH													
Aliphatic (C09-C18)	NA	540	40,000	ND	NS	ND	NS	ND	ND	NS	ND	NS	ND
Aliphatic (C19-C36)	NA	NA	810,000	ND	NS	ND	NS	ND	ND	NS	ND	NS	ND
Aromatic (C11-C22)	NA	31	12,264	ND	NS	ND	NS	ND	ND	NS	ND	NS	ND
TPH GRO EPA 8015/5035/5030B prep													
Gasoline Range Organics	10	NA	NA	ND	NS	ND	NS	ND	ND	NS	ND	NS	ND
MADEP VPH													
Aliphatic (C05-C08)	NA	68	24,528	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatic (C09-C12)	NA	540	40,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic (C09-C10)	NA	31	12,264	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals 6010/3050 prep													
Chromium	NA	5.4	1,226	**6.2**	4.6	4.4	3.1	**10.0**	5.1	**6.7**	**5.4**	**6.5**	4.1
Lead	NA	270	400	54.2	17.9	27.6	20.8	7.3	39.1	8.5	10.8	18.0	170
SVOCs Method 8270/3546 prep													
Various	NA	Various	Various	ND	NS	ND	NS	ND	ND	NS	ND	NS	ND
VOCs Method 8260/5035A													
cis-1,2-Dichloroethene	NA	0.35	4,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	NA	0.0074	10	ND	ND	ND	ND	**0.0075**	**0.0076**	0.0069	ND	ND	ND

Notes:
Units in mg/Kg
ND: Not Detected
NS: Not sampled
NA: Not Applicable
MADEP: Massachussetts Department of Environmental Protection
Action Level and Maximum Soil Concentration Levels (MSCC)
from Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement
for UST Releases, March 1, 2007 Version Change 5, Effective December 1, 2013
Bold exceeds the standard

Table 2A
May 15, 2014 Summary of Soil Laboratory Results
Parcel 018
NCDOT B-4490, Cumberland County

Sample ID:	TPH-GRO and DRO Action Level	Soil to Groundwater MSCC	Commercial/ Industrial MSCC	B-18-10 (4-5 ft)	B-18-11 (1-3 ft)	B-18-11 (5-7 ft)	B-18-12 (1-3 ft)	B-18-12 (5-7 ft)
Matrix:				Soil	Soil	Soil	Soil	Soil
Sampled Date:				5/15/2014	5/15/2014	5/15/2014	5/15/2014	5/15/2014
TPH DRO EPA 8015/3546 prep								
Diesel Range Organics	10	NA	NA	NS	NS	ND	NS	ND
MADEP EPH								
Aliphatic (C09-C18)	NA	540	40,000	NS	NS	ND	NS	ND
Aliphatic (C19-C36)	NA	NA	810,000	NS	NS	ND	NS	ND
Aromatic (C11-C22)	NA	31	12,264	NS	NS	ND	NS	ND
TPH GRO EPA 8015/5035/5030B prep								
Gasoline Range Organics	10	NA	NA	NS	NS	ND	NS	ND
MADEP VPH								
Aliphatic (C05-C08)	NA	68	24,528	ND	ND	ND	ND	ND
Aliphatic (C09-C12)	NA	540	40,000	ND	ND	ND	ND	ND
Aromatic (C09-C10)	NA	31	12,264	ND	ND	ND	ND	ND
Metals 6010/3050 prep								
Chromium	NA	5.4	1,226	**5.7**	4.9	**14.0**	**8.0**	**6.2**
Lead	NA	270	400	23.1	5.5	7.6	5.8	5.6
SVOCs Method 8270/3546 prep								
Various	NA	Various	Various	NS	NS	ND	NS	ND
VOCs Method 8260/5035A								
cis-1,2-Dichloroethene	NA	0.35	4,000	ND	ND	ND	ND	ND
Tetrachloroethene	NA	0.0074	10	ND	ND	ND	ND	ND

Notes:
Units in mg/Kg
ND: Not Detected
NS: Not sampled
NA: Not Applicable
MADEP: Massachussetts Department of Environmental Protection
Action Level and Maximum Soil Concentration Levels (MSCC)
from Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases, March 1, 2007 Version Change 5, Effective December 1, 2013
Bold exceeds the standard

TABLE 2
FEBRUARY 19, 2014 SUMMARY OF GROUNDWATER RESULTS
PARCEL 018
NCDOT B-4490, CUMBERLAND COUNTY

Sample ID:	NC 2L Standards	B-18-01	Duplicate-2
Matrix:		Water	Water
Sampled Date:		2/19/2014	2/19/2014
8015M Glycols			
Ethylene Glycol	10,000	ND	ND
MADEP Extractable Petroleum Hydrocarbons (EPH)			
Various	Various	ND	ND
MADEP Volatile Petroleum Hydrocarbons (VPH)			
Various	Various	ND	ND
Metals 6010			
Chromium	10	**10.4**	ND
Lead	15	ND	ND
EPA Method 625 Semi-volatile Organic Compounds (SVOCs)			
Unknown (TIC)	NA	113	ND
Unknown (TIC)	NA	168	ND
Tetrachloroethylene (TIC)	0.7	ND	**5.1**
Method 6200B Volatile Organic Compounds (VOCs)			
cis-1,2-Dichloroethene	70	8.7	8.9
Methyl-tert-butyl ether	20	1.3	1.4
Tetrachloroethene	0.7	**28.9**	**28.1**
Trichloroethene	3	**8.8**	**8.6**
Method 8260 Low Level VOCs			
cis-1,2-Dichloroethene	70	7.4	7.2
Methyl-tert-butyl ether	20	1.1	1.1
Tetrachloroethene	0.7	**30.1**	**29.5**
Trichloroethene	3	**9.0**	**8.7**
Carbonyl Compounds Method SW8315A			
Formaldehyde	600	180	220

Notes:
Units in ug/L
ND: Not Detected
NA: Not Applicable
TIC: Tentativley Identified Compounds
MADEP: Massachussetts Department of Environmental Protection
Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, NCAC Title 15A Subchapter 2L, Amended April 1, 2013
Bold exceeds the standard

FIGURES

Figure 1, Vicinity Map
Figure 2, Site Map
Figure 3 and 3A, Boring Locations and Legend

Source: 1. Cumberland County, NC, GIS Department
http://www.co.cumberland.nc.us/is_technology/gis.aspx
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

240 120 0 240 Feet

Scale: 1:3,000

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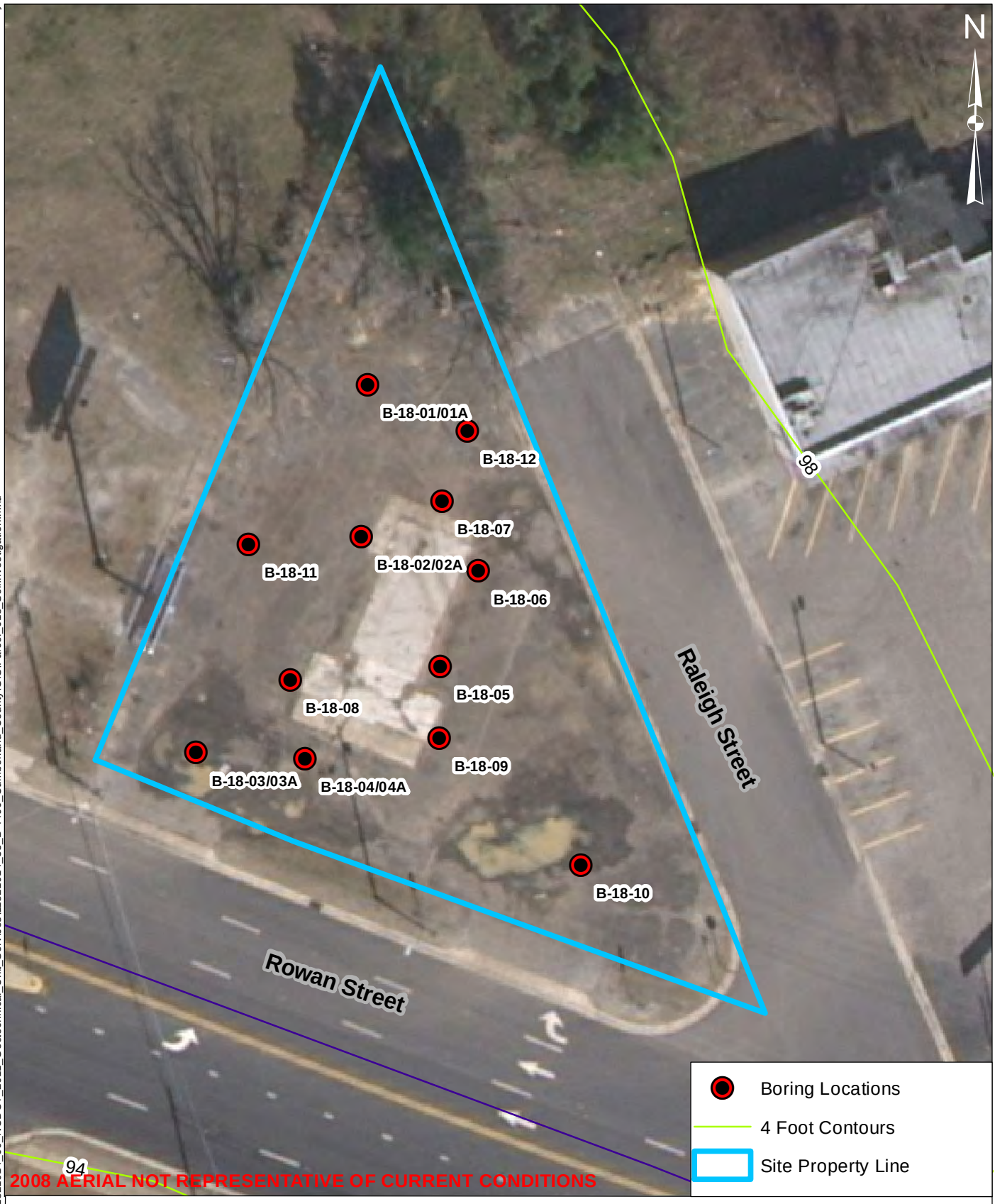
SITE PROJECT B-4490, PSA PARCELS
CUMBERLAND COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 11821014.33

VICINITY MAP

FIGURE 1

bbradley

3/27/2014 G:\2011-SDE-Jobs\11821014_00_NCDOT_2011_Geotechnical_Unit_Services\11821014_33_B-4490_Cumberland_County\GIS\Vicinity_map.mxd



Source: 1. Cumberland County, NC, GIS Department
http://www.co.cumberland.nc.us/is_technology/gis.aspx
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

30 15 0 30 Feet

Scale: 1:400

Schnabel ENGINEERING

SITE PROJECT B-4490, PARCEL 018
CUMBERLAND COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 11821014.33

BORING LOCATIONS
PARCEL 018

FIGURE 2

6/10/2014 G:\2011-SDE-Jobs\11821014_00_NCDOT_2011_Geotechnical_Unit_Services\11821014_33_B-4490_Cumberland_County\GIS\Parcel_018_SoilInvestigation.mxd bbradley

0 40 80
FEET

Schnabel ENGINEERING

NC Department of Transportation
Geotechnical Engineering Unit
State Project No. B-4490
Cumberland County, North Carolina

BORING LOCATIONS
Parcel 018

Figure 3

04/16/11

PROJECT REFERENCE NO.	SHEET NO.
B-4490	S-A

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Boundary or Site
- Potential Soil Contamination: Boundary or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite Marker — RW
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Curb Cut Future Ramp — CCFR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

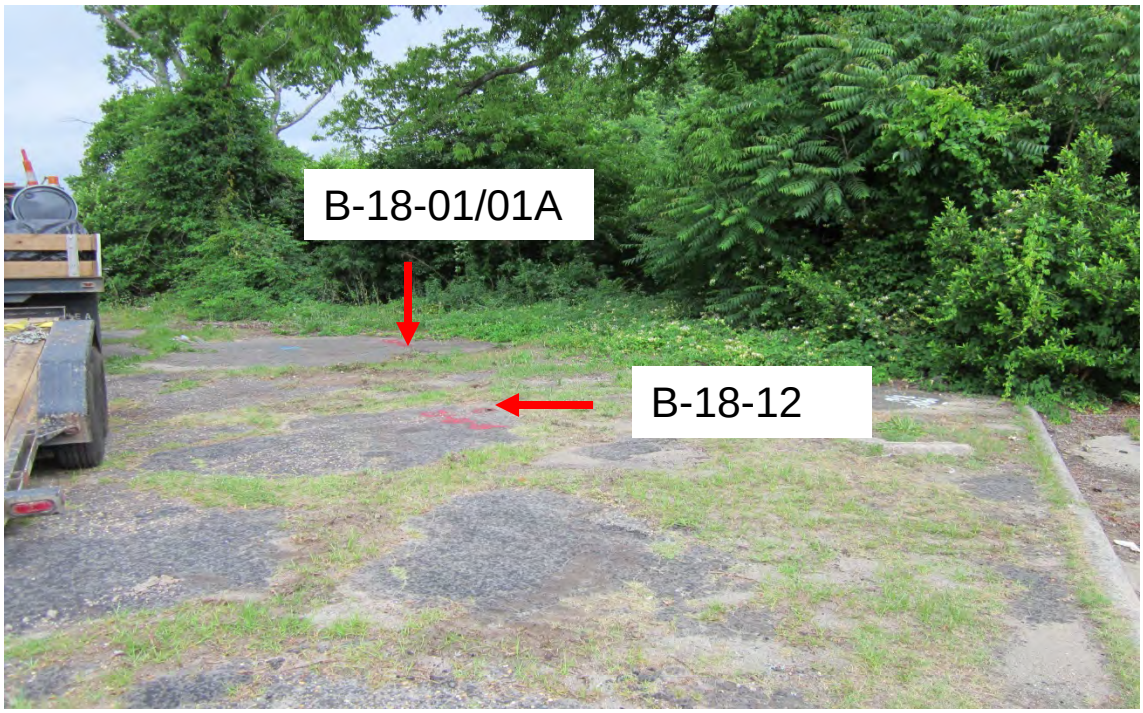
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

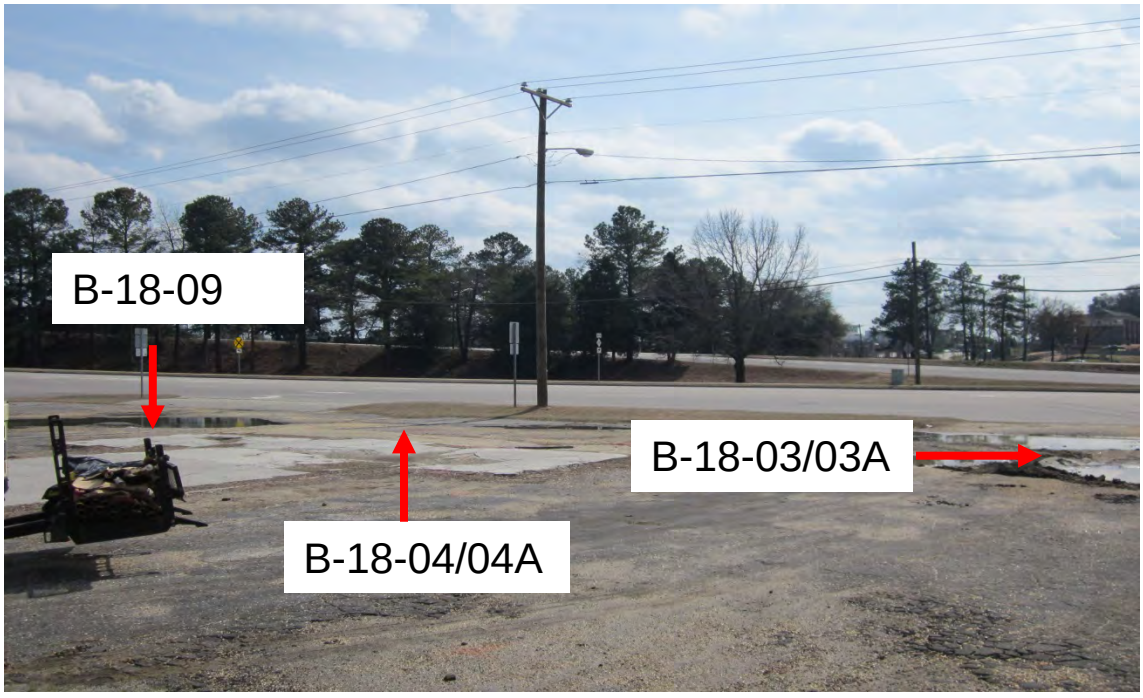
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

APPENDIX A

PHOTOGRAPHS

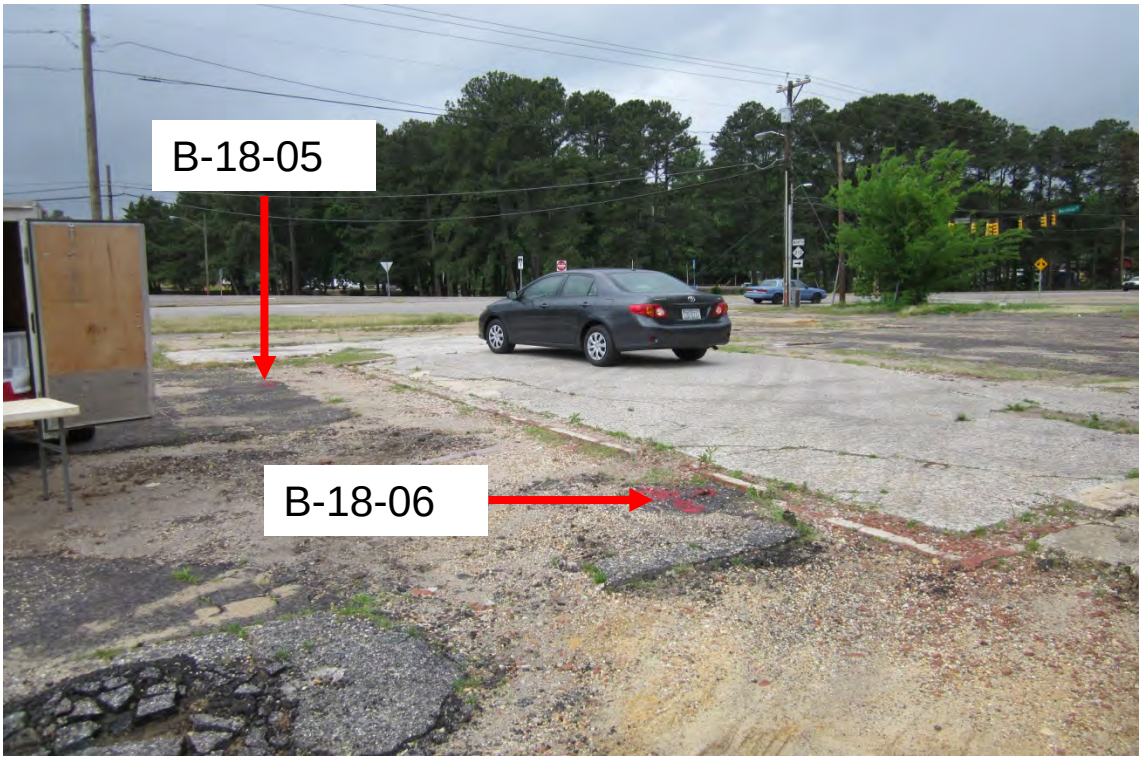


Parcel 018, facing north toward B-18-01/01A and 12



Parcel 018, facing southeast toward B-18-03/03A, 04/4A, and 09

Parcel 018, east toward B-1802/02A



Parcel 018, facing southwest toward B-18-05 and 06

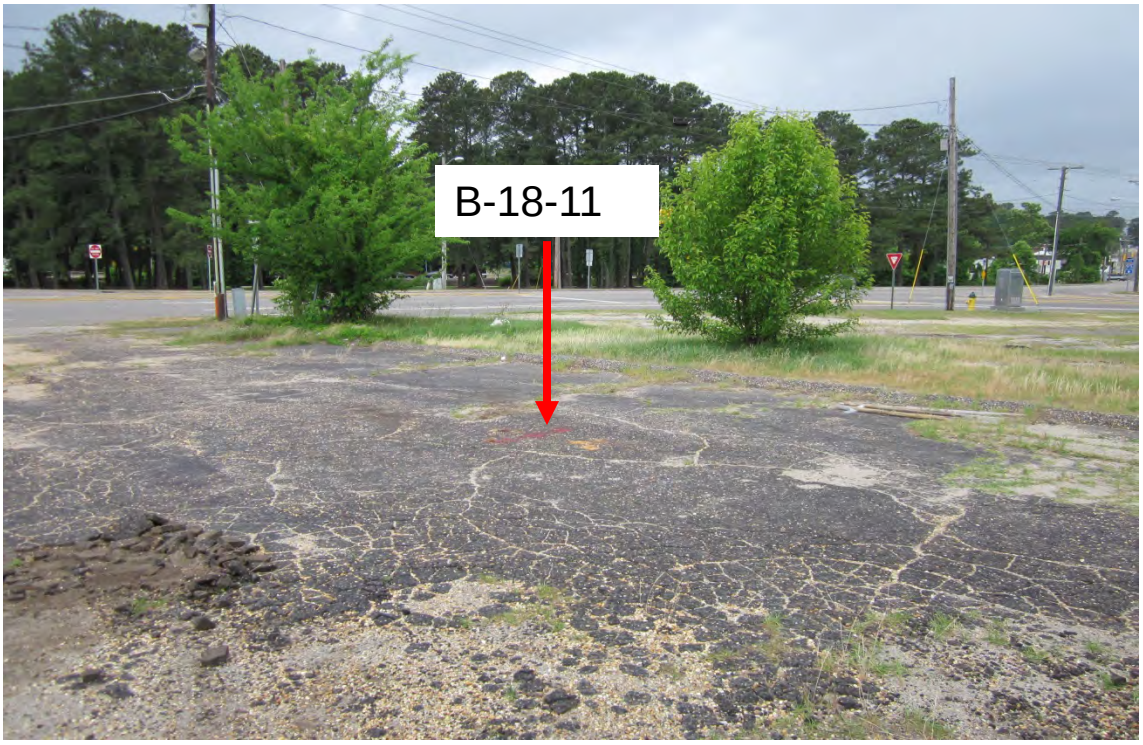
Schnabel ENGINEERING

STATE PROJECT B-4490
CUMBERLAND CO.
NORTH CAROLINA
NC DEPT. OF TRANSPORTATION
PROJECT NO. 11821014.33

SOIL BORINGS
PARCEL 018

Figure A-1

Parcel 018, facing southeast toward B-18-08



Parcel 018, facing southwest toward B-18-11

Parcel 018, facing east toward B-18-10

Parcel 018, facing east toward B-18-07

Schnabel ENGINEERING

STATE PROJECT B-4490
CUMBERLAND CO.
NORTH CAROLINA
NC DEPT. OF TRANSPORTATION
PROJECT NO. 11821014.33

SOIL BORINGS
PARCEL 018

Figure A-1

APPENDIX B

GEOPHYSICS REPORT

Schnabel ENGINEERING

March 27, 2014

Mr. Mohammed A. Mulla, P.E., CPM, MCE
NCDOT, Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

RE:	State Project:	B-4490
	WBS Element:	33727.1.1
	County:	Cumberland
	Description:	Replace Bridge No. 116 over CSX Railroad, North South Railroad, and Hillsboro Street on NC 24-210

Subject: **Project 11821014.33, Report on Geophysical Surveys**
Parcel 018, P&S Enterprises Property, Fayetteville, North Carolina

Dear Mr. Mulla:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we performed on the subject property. The report includes two 11x17 inch color figures and two 8.5x11 inch color figures. This study was performed in accordance with our proposal for Geophysical Surveys to Locate Possible USTs dated December 26, 2013, as approved by Terry Farr on January 24, 2014, and our existing agreement dated June 2, 2011. Gordon Box provided a verbal notice to proceed on January 23, 2014.

INTRODUCTION

The field work described in this report was performed on January 28, 2014 and February 6, 2014. The purpose of the geophysical surveys was to evaluate the potential presence of metal underground storage tanks (USTs) in the accessible areas of Parcel 018. Photographs of the property are included on Figure 1. The property is located in the northwest quadrant of the intersection of Rowan Street and Raleigh Street in Fayetteville, NC.

The geophysical surveys consisted of an electromagnetic (EM) induction survey and a ground penetrating radar (GPR) survey. The EM survey was performed using a Geonics EM61-MK2 (EM61) instrument. The EM61 is a time domain metal detector that stores data digitally for later processing and review. Sensitivity to metallic objects is dependent on the size, depth, and orientation of the buried object and the amount of noise (i.e. response from spurious metallic objects) in the area. The EM61 can generally observe a single

T/ 336-274-9456 F/ 336-274-9486
11A Oak Branch Drive / Greensboro, NC / 27407

buried 55 gallon drum at a depth of 10 feet or less. The EM61 makes measurements by creating an electromagnetic pulse and then measuring the response from metallic objects over time after the pulse is generated. We measured and recorded the response at several time increments after the pulse to help evaluate relative size and depth of metallic objects in the subsurface.

The GPR survey was performed over selected EM61 anomalies using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna to further investigate and evaluate EM responses that could indicate a potential UST. The depth penetration of the GPR signal, when using a 400 MHz antenna, is normally limited to 6 feet or less.

Photographs of the equipment used are shown on Figure 2.

FIELD METHODOLOGY

We obtained locations of geophysical data points using a sub-meter Trimble Pro-XRS differential global positioning system (DGPS). References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. We also recorded the locations of existing site features (utilities, signs, etc.) with the DGPS for later correlation with the geophysical data and a site plan provided by the NCDOT. The Microstation data provided by the NCDOT appears to be offset from the DGPS data we collected. The amount (approximately 5 feet) and direction (WNW) of offset of the Microstation data appear to be consistent for all parcels where we collected data for this project.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced approximately one to two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of USTs. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

DISCUSSION OF RESULTS

The contoured EM61 data collected over Parcel 018 and the GPR survey area locations are shown on Figure 3, EM61 Early Time Gate Response, and Figure 4, EM61 Differential Response. Areas outside the colored, contoured EM61 data were not surveyed. Early time data refer to the response measured at a short time after the initial EM pulse is generated. Early time data typically contain responses from all metal objects, small or large and shallow or deep, within the sensitivity range of the instrument. Differential data represent the difference in response between the top and bottom coils of the EM61 instrument at a later time after the initial pulse than early time data. Differential data naturally tend to filter out the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as USTs.

We were not able to access an area in the northern portion of the planned survey area due to the presence of thick vegetation. The EM data contain multiple anomalies that we investigated with GPR (as shown on Figures 3 and 4), all of which appear to be the result of buried utilities, reinforced concrete, or

other metal objects at the ground surface or at shallow depths. The geophysical data collected at the site do not indicate the presence of metallic USTs within the areas surveyed.

CONCLUSIONS

As shown in Figures 3 and 4, the EM data we collected over Parcel 018 did not cover a portion of the planned survey area due to the presence of thick vegetation. The EM data include responses from several visible metallic objects at grade (e.g. signs, guy wires, etc.). We did not observe anomalies in the EM or the GPR geophysical data at the subject property that we interpret to be the results of metallic USTs within about 6 feet of the ground surface.

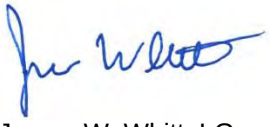
LIMITATIONS

These services have been performed and this report prepared for the North Carolina Department of Transportation in accordance with generally accepted guidelines for conducting geophysical surveys. It is generally recognized that the results of geophysical surveys are non-unique and may not represent actual subsurface conditions.

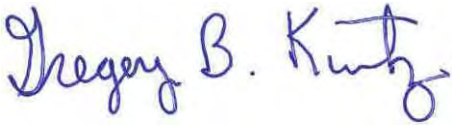
We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC



James W. Whitt, LG
Senior Staff Geophysicist



Gregory B. Kuntz, LG
Senior Associate

JWW:JCD:GBK
Attachments: Figures (4)
CC: NCDOT, Gordon Box
FILE: G:\2011-SDE-JOBS\11821014_00_NCDOT_2011_GEOTECHNICAL_UNIT_SERVICES\11821014_33_B-4490_CUMBERLAND_COUNTY\REPORT\GEOPHYSICS\PARCEL 18\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 18 (B-4490) FINAL.DOCX

Attachments:

- Figure 1 - Parcel 018 Site Photos
- Figure 2 - Photos of Geophysical Equipment Used
- Figure 3 - EM61 Early Time Gate Response
- Figure 4 - EM61 Differential Response

Parcel 018 (P&S Enterprises Property), looking northwest

Parcel 018 (P&S Enterprises Property), looking northeast

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STATE PROJECT B-4490
NC DEPT. OF TRANSPORTATION
CUMBERLAND CO., NORTH CAROLINA
PROJECT NO. 11821014.33

PARCEL 018
SITE PHOTOS

FIGURE 1

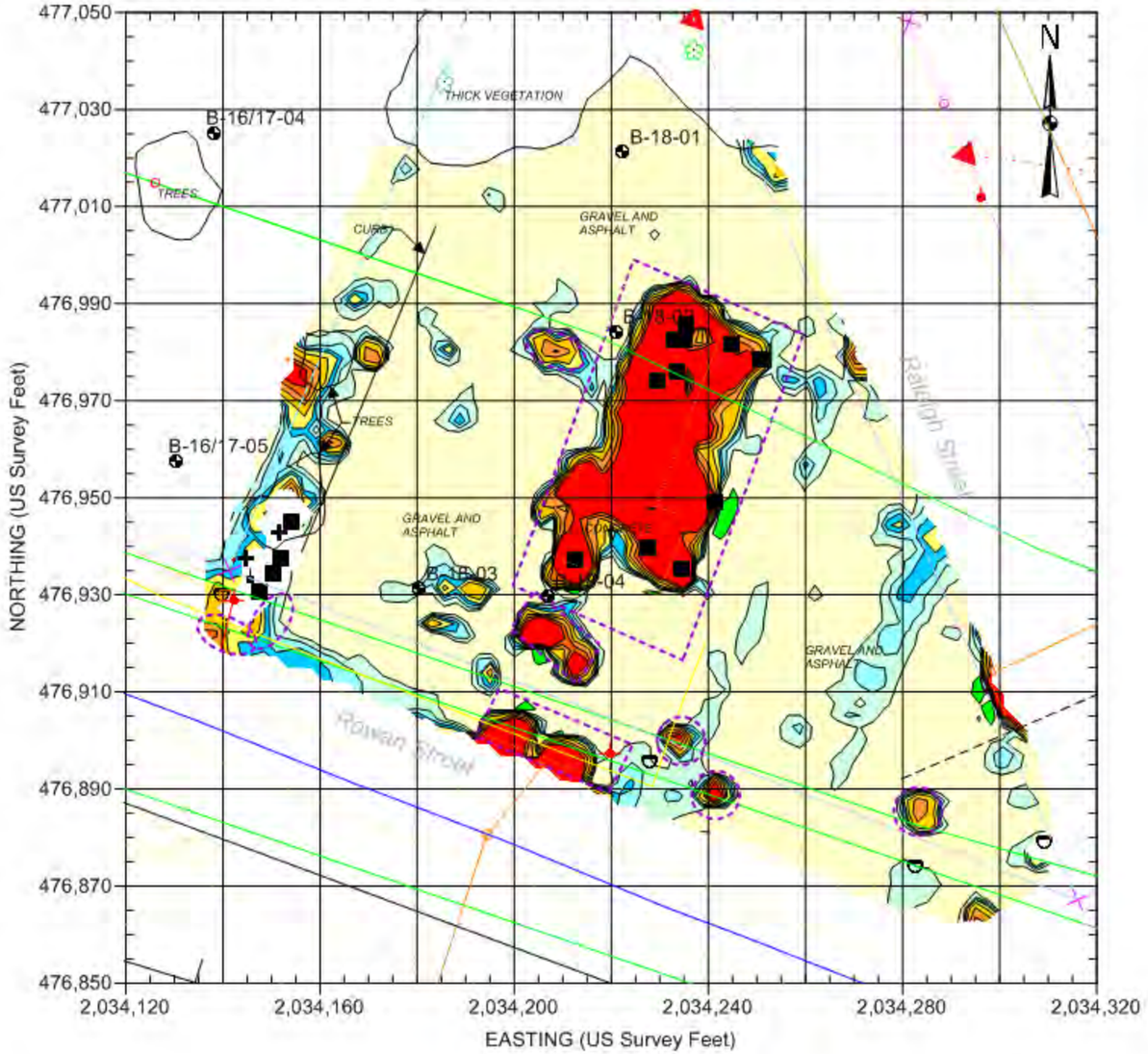
Geonics EM61-MK2 Metal Detector with Trimble DGPS Unit

GSSI SIR-3000 Ground-Penetrating Radar with 400 MHz Antenna

Note: Stock photographs – not taken on site.

Schnabel ENGINEERING	STATE PROJECT B-4490 NC DEPT. OF TRANSPORTATION CUMBERLAND CO., NORTH CAROLINA PROJECT NO. 11821014.33	PHOTOS OF GEOPHYSICAL EQUIPMENT USED FIGURE 2

PARCEL 018



EM61 Differential Response (mV)

-20000 -100 0 40 60 80 100 120 140 160 200

Scale in US Survey Feet: 1 in = 30 ft

0 30 60 90

EXPLANATION

- SIGN
- MISCELLANEOUS METALLIC OBJECT
- UTILITY POLE
- GUY WIRE
- EDGE OF NCDOT PROPOSED R/W
- PROPERTY LINE
- GPR SURVEY AREA
- BORING LOCATION

BASE PLAN FROM NCDOT FILE:
B-4490_rdy_psh_07.dgn
(FOR SOME SITE FEATURES)

Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on January 28, 2014, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on February 6, 2014, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

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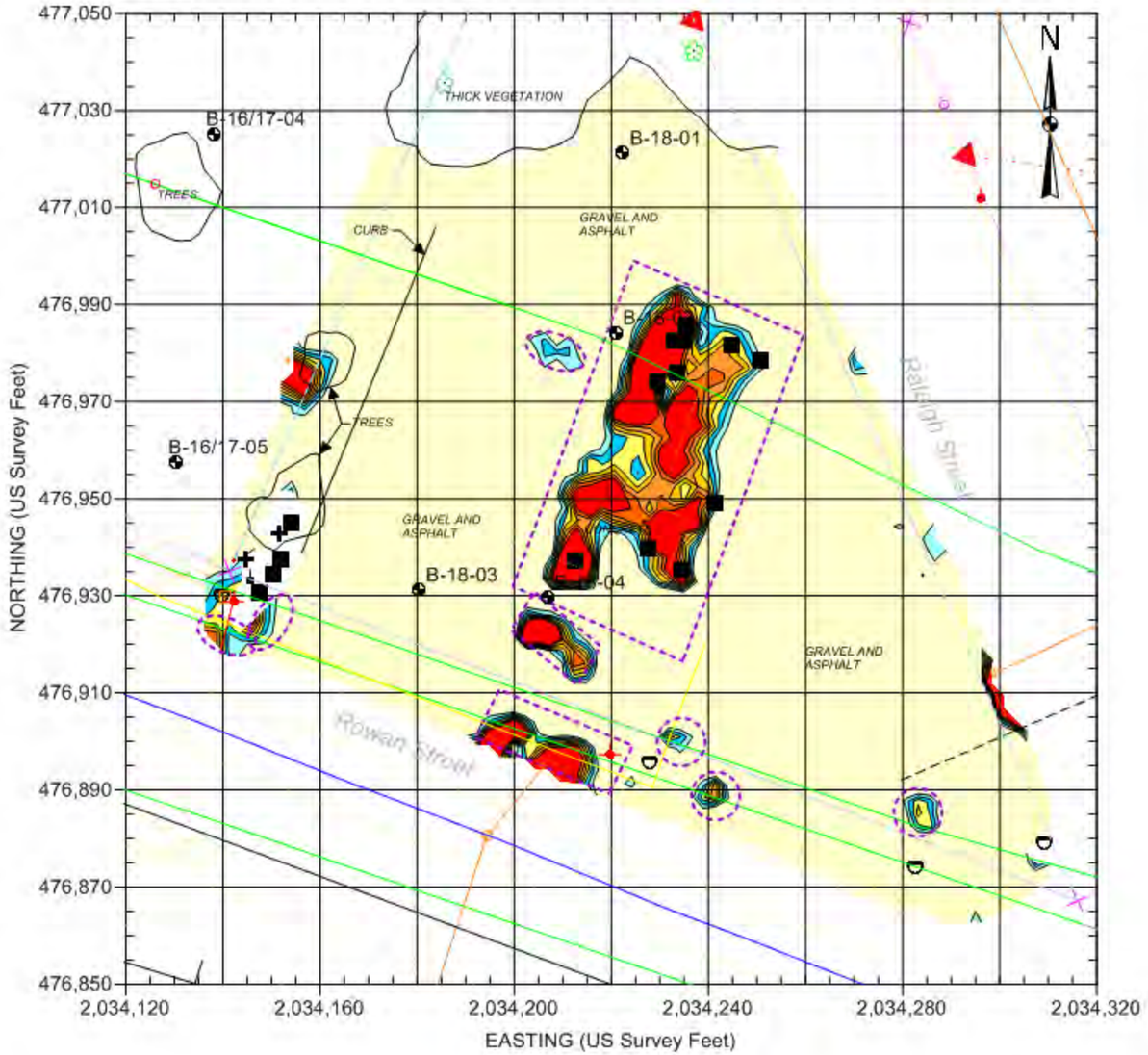
STATE PROJECT B-4490
NC DEPARTMENT OF TRANSPORTATION
CUMBERLAND COUNTY, NC
PROJECT NO. 11821014.33

EM61
EARLY TIME GATE
RESPONSE

FIGURE 3

PARCEL 018



EM61 Differential Response (mV)

-20000 -100 0 40 60 80 100 120 140 160 200

Scale in US Survey Feet: 1 in = 30 ft

0 30 60 90

EXPLANATION

- SIGN
- MISCELLANEOUS METALLIC OBJECT
- UTILITY POLE
- GUY WIRE
- EDGE OF NCDOT PROPOSED R/W
- PROPERTY LINE
- GPR SURVEY AREA
- BORING LOCATION

BASE PLAN FROM NCDOT FILE:
B-4490_rdy_psh_07.dgn
(FOR SOME SITE FEATURES)

Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on January 28, 2014, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on February 6, 2014, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT B-4490
NC DEPARTMENT OF TRANSPORTATION
CUMBERLAND COUNTY, NC
PROJECT NO. 11821014.33

EM61
DIFFERENTIAL
RESPONSE

FIGURE 4

APPENDIX C

SOIL BORING LOGS

Schnabel ENGINEERING

GEO PROBE LOG

Project: Preliminary Site Assessments
Cumberland County
Fayetteville, North Carolina

Geo Probe Number: **B-18-01**
Contract Number: B-4490
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina

Contractor Foreman: W. Hall

Schnabel Representative: B. Bradley

Equipment: Geoprobe 7822DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 2/19/14 **Finished:** 2/19/14

X: 477021.237 m **Y:** 2034222.385 m

Ground Surface Elevation: **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	2/19	1:54 PM	7.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	SILTY SAND; wet, yellowish brown, probable RESIDUAL material	SM					PID = 0.0 ppm	
					5		PID = 0.0 ppm	
							PID = 0.0 ppm	
							PID = 0.0 ppm	
					10		PID = 0.0 ppm	
12.0						B-18-01	PID = 0.0 ppm	

Bottom of Geo Probe at 12.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite and cuttings upon completion.

TEST BORING LOG PSA.GPJ SCHNABEL DATA TEMPLATE 2008_07_06.GDT 3/27/14

Schnabel ENGINEERING **GEO PROBE LOG**

Project: Preliminary Site Assessments
Cumberland County
Fayetteville, North Carolina

Geo Probe Number: **B-18-02**
Contract Number: B-4490
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina

Contractor Foreman: W. Hall

Schnabel Representative: B. Bradley

Equipment: Geoprobe 7822DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 2/19/14 **Finished:** 2/19/14

X: 476984.231 m **Y:** 2034220.93 m

Ground Surface Elevation: **Total Depth:** 10.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	2/19	1:47 PM	7.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	SILTY SAND WITH CLAY; wet, orangeish brown, probable RESIDUAL material, To gray at 5 ft	SM			5		PID = 0.0 ppm PID = 0.0 ppm PID = 0.0 ppm PID = 0.0 ppm	
10.0					10		PID = 0.0 ppm	

Bottom of Geo Probe at 10.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: Preliminary Site Assessments
Cumberland County
Fayetteville, North Carolina

Geo Probe Number: **B-18-03**
Contract Number: B-4490
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina

Contractor Foreman: W. Hall

Schnabel Representative: B. Bradley

Equipment: Geoprobe 7822DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 2/19/14 **Finished:** 2/19/14

X: 476931.245 m **Y:** 2034180.447 m

Ground Surface Elevation: **Total Depth:** 10.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	2/19	1:33 PM	7.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	SILTY SAND; wet, light gray, probable RESIDUAL material, yellowish gray at 9 ft	SM					PID = 0.0 ppm	
					5		PID = 0.0 ppm	
							PID = 0.0 ppm	
8.0	CLAYEY SAND; moist, light gray, probable RESIDUAL material	SC					PID = 0.0 ppm	
10.0					10		PID = 0.0 ppm	

Bottom of Geo Probe at 10.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: Preliminary Site Assessments
Cumberland County
Fayetteville, North Carolina

Geo Probe Number: **B-18-04**
Contract Number: B-4490
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina

Contractor Foreman: W. Hall

Schnabel Representative: B. Bradley

Equipment: Geoprobe 7822DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 2/19/14 **Finished:** 2/19/14

X: 476929.673 m **Y:** 2034206.817 m

Ground Surface Elevation: **Total Depth:** 10.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	2/19	1:40 PM	7.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	SILTY SAND; moist, orangeish brown	SM					PID = 0.0 ppm	
							PID = 0.0 ppm	
5.0	SILTY SAND WITH CLAY; wet, light gray, probable RESIDUAL material ▽	SM			5		PID = 0.3 ppm	
							PID = 0.0 ppm	
10.0					10		PID = 0.0 ppm	

Bottom of Geo Probe at 10.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-01A**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034222.385 ft **East:** 477021.237 ft

Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 7.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:57 AM	5.5'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.1	Asphalt	FILL						
0.6	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand					B-18-01A (1-3 ft)	PID = 0 ppm	
	SILTY SAND; moist to wet, light orangeish brown, estimated 5 - 10% medium to coarse, probable RESIDUAL material	SM					PID = 0 ppm	
	▽				5	B-18-01A (5-7 ft)	PID = 0 ppm	
7.0								

Bottom of Geo Probe at 7.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

TEST BORING LOG FAYETTEVILLE PSAS.GPJ SCHNABEL DATA TEMPLATE 2008_07_06.GDT 6/9/14

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-02A**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034220.93 ft **East:** 476984.231 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:11 AM	4.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt	FILL					PID = 0 ppm	
1.0	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	SM				B-18-02A (1-2 ft)	PID = 0 ppm	
4.0	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material ▽	SM				B-18-02A (4-5 ft)	PID = 0 ppm	
5.0	SILTY SAND; wet, light brown, probable RESIDUAL material				5			

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-03A**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034180.447 ft **East:** 476931.245 ft

Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	11:03 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	FILL				B-18-03A (1-2 ft)	PID = 0 ppm	
2.0	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material	SM					PID = 0 ppm	
4.5						B-18-03A (4-5 ft)	PID = 0 ppm	
5.0	SILTY SAND; wet, dark blackish brown, estimated 5 - 10% organics, probable RESIDUAL material	SM ▽			5			
	Bottom of Geo Probe at 5.0 ft.							
	Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.							

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-04A**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034207.104 ft **East:** 476929.673 ft

Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 7.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:24 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	FILL				B-18-04A (1-3 ft)	PID = 0 ppm	
2.5	SILTY SAND WITH CLAY; moist to wet, light brown to dark brownish gray, probable RESIDUAL material	SM					PID = 0.3 ppm	
					5	B-18-04A (5-7 ft)	PID = 0 ppm	
7.0							PID = 0 ppm	

Bottom of Geo Probe at 7.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-05**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034240.32 ft **East:** 476952.477 ft

Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:38 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt						PID = 0 ppm	
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand, estimated <5% gravel	FILL				B-18-05 (1-2 ft)		
2.5	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material ▽	SM					PID = 0 ppm	
5.0					5	B-18-05 (4-5 ft)	PID = 0 ppm	

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-06**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034249.593 ft **East:** 476975.801 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:41 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt							
	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material	SM				B-18-06 (1-2 ft)	PID = 0.3 ppm	
							PID = 0 ppm	
5.0					5	B-18-06 (4-5 ft)	PID = 0 ppm	

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-07**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034240.601 ft **East:** 476992.942 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:45 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt	FILL					PID = 0 ppm	
1.0	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand					B-18-07 (1-2 ft)		
	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material	SM					PID = 0 ppm	
5.0					5	B-18-07 (4-5 ft)	PID = 0 ppm	

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

TEST BORING LOG FAYETTEVILLE PSAS.GPJ SCHNABEL DATA TEMPLATE 2008_07_06.GDT 6/9/14

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-08**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034203.508 ft **East:** 476949.105 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:19 AM	4.5'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt						PID = 0.4 ppm	
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	FILL				B-18-08 (1-2 ft)		
2.0	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material ▽	SM					PID = 0.5 ppm	
						B-18-08 (4-5 ft)	PID = 0 ppm	
5.0					5			

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-09**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034240.039 ft **East:** 476934.774 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:31 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt						PID = 0 ppm	
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	FILL				B-18-09 (1-2 ft)		
2.0	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material	SM					PID = 0 ppm	
						B-18-09 (4-5 ft)	PID = 0 ppm	
5.0					5			

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-10**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034274.728 ft **East:** 476903.72 ft

Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 5.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	11:08 AM	4.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt	FILL					PID = 0 ppm	
0.5	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	FILL				B-18-10 (1-2 ft)		
	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand						PID = 0 ppm	
4.0		SM ▽				B-18-10 (4-5 ft)	PID = 0 ppm	
5.0	SILTY SAND; wet, dark blackish brown, estimated 5 - 10% organics, probable RESIDUAL material				5			

Bottom of Geo Probe at 5.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-11**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034193.406 ft **East:** 476982.168 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 7.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:05 AM	4.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt	FILL					PID = 0 ppm	
0.8	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand	SM				B-18-11 (1-3 ft)	PID = 0 ppm	
4.0	SILTY SAND; moist to wet, grayish brown, estimated 30 - 45% fine grained sand, probable RESIDUAL material ▽							
5.0	FAT CLAY; moist, gray	SC			5	B-18-11 (5-7 ft)	PID = 0 ppm	
7.0	SILTY SAND; moist, light brown, estimated 5 - 10% gravel, probable RESIDUAL material	SM					PID = 0 ppm	

Bottom of Geo Probe at 7.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

Schnabel ENGINEERING

GEO PROBE LOG

Project: B-4490, Cumberland County
Parcel 018
Fayetteville, North Carolina

Geo Probe Number: **B-18-12**
Contract Number:
Sheet: 1 of 1

Contractor: Saedacco, Inc.
Fort Mill, South Carolina
Contractor Foreman: R. Lemire
Schnabel Representative: B. Bradley
Equipment: Geoprobe 7730DT
Method: 3-1/4" Probe Rod,
Macrocore
Hammer Type:
Dates Started: 5/15/14 **Finished:** 5/15/14
North: 2034246.854 ft **East:** 477010.042 ft
Plunge: -90 **Bearing:**
Ground Surface Elevation: **Total Depth:** 7.0 ft

Water Level Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	5/15/14	10:51 AM	5.5'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Asphalt	FILL					PID = 0 ppm	
1.0	PROBABLE FILL, sampled as silty sand; moist, orangeish brown, estimated 15 - 25% fine to medium sand					B-18-12 (1-3 ft)		
	SILTY SAND; moist to wet, light orangeish brown, estimated 5 - 10% medium to coarse, probable RESIDUAL material	SM					PID = 0 ppm	
	▽				5	B-18-12 (5-7 ft)	PID = 0 ppm	
7.0								

Bottom of Geo Probe at 7.0 ft.
Boring backfilled with alternating layers of bentonite chips and cuttings upon completion.

APPENDIX D

SOIL BORING GPS COORDINATES

SOIL BORING GPS COORDINATES
NCDOT B-4490, CUMBERLAND COUNTY

Soil Boring GPS Coordinates		
Boring Identification	Easting	Northing
	X	Y
B-18-01A	2034222.385	477021.237
B-18-02A	2034220.930	476984.231
B-18-03A	2034180.447	476931.245
B-18-04A	2034207.104	476929.673
B-18-05	2034240.320	476952.477
B-18-06	2034249.593	476975.801
B-18-07	2034240.601	476992.942
B-18-08	2034203.508	476949.105
B-18-09	2034240.039	476934.774
B-18-10	2034274.728	476903.720
B-18-11	2034193.406	476982.168
B-18-12	2034246.854	477010.042

* NC State Plane 1983 System, NC 3200 Zone,
NAD 83 Datum, US Survey Feet

APPENDIX E

FEBRUARY 19, 2014 GROUNDWATER LABORATORY ANALYTICAL RESULTS

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

March 08, 2014

Chemical Testing Engineer
Materials and Tests Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Dear Chemical Engineer:
Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2014. 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ben Bradley, Schnabel Engineering

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

CERTIFICATIONS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Charlotte Certification IDs
9800 Kincey 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

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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

SAMPLE ANALYTE COUNT

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92190355001	**B-13-01 6FT**	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92190355002	**DUPLICATE -1**	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92190355003	**B-16/17-01**	EPA 8015 - Alcohol-Glycol	CEM	1	PASI-I
		MADEP EPH	EJK	7	PASI-C
		MADEP VPH	GAW	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 625	RES	58	PASI-C
		SM 6200B	CAH	64	PASI-C
		EPA 8260	MCK	63	PASI-C
92190355004	**B-18-01**	EPA 8015 - Alcohol-Glycol	CEM	1	PASI-I
		MADEP EPH	EJK	7	PASI-C
		MADEP VPH	GAW	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 625	RES	60	PASI-C
		SM 6200B	CAH	64	PASI-C
		EPA 8260	MCK	63	PASI-C
92190355005	**DUPLICATE-2**	EPA 8015 - Alcohol-Glycol	CEM	1	PASI-I
		MADEP EPH	EJK	7	PASI-C
		MADEP VPH	GAW	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 625	RES	59	PASI-C
		SM 6200B	CAH	64	PASI-C
		EPA 8260	MCK	63	PASI-C
92190355006	**B-07-02 8'**	EPA 8015 Modified	NU1	2	PASI-C
		MADEP EPH	EJK	7	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		MADEP VPH	GAW	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92190355007	**B-07-06 10'**	EPA 8015 Modified	NU1	2	PASI-C
		MADEP EPH	EJK	7	PASI-C

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8015 Modified	GAW	2	PASI-C
		MADEP VPH	GAW	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C

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

PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8015 Modified**
Description: 8015 GCS THC-Diesel
Client: NCDOT South East
Date: March 08, 2014

General Information:
4 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/26002

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92189902002

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

- MS (Lab ID: 1141207)
  - Diesel Components
- MSD (Lab ID: 1141208)
  - Diesel Components

R1: RPD value was outside control limits.

- MSD (Lab ID: 1141208)
  - Diesel Components
  - n-Pentacosane (S)

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8015 - Alcohol-Glycol**
Description: 8015M Glycols in water
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for EPA 8015 - Alcohol-Glycol. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT South East
Date: March 08, 2014

General Information:
2 samples were analyzed for MADEP EPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP EPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/26076

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- B-07-02 8' (Lab ID: 92190355006)
  - Nonatriacontane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/26076

N2: The lab does not hold TNI accreditation for this parameter.
- B-07-02 8' (Lab ID: 92190355006)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-07-06 10' (Lab ID: 92190355007)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT South East
Date: March 08, 2014

Analyte Comments:

QC Batch: OEXT/26076

N2: The lab does not hold TNI accreditation for this parameter.

- B-07-06 10' (Lab ID: 92190355007)
  - Aromatic (C11-C22)
- BLANK (Lab ID: 1143989)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCS (Lab ID: 1143990)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCSD (Lab ID: 1143991)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP EPH**
Description: MADEP EPH NC Water
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for MADEP EPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP EPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/26031

N2: The lab does not hold TNI accreditation for this parameter.

- B-16/17-01 (Lab ID: 92190355003)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-01 (Lab ID: 92190355004)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- BLANK (Lab ID: 1142333)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP EPH**
Description: MADEP EPH NC Water
Client: NCDOT South East
Date: March 08, 2014

Analyte Comments:

QC Batch: OEXT/26031

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1142333)
  - Aromatic (C11-C22)
- DUPLICATE-2 (Lab ID: 92190355005)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCS (Lab ID: 1142334)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCSD (Lab ID: 1142335)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8015 Modified**
Description: Gasoline Range Organics
Client: NCDOT South East
Date: March 08, 2014

General Information:
4 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: March 08, 2014

General Information:
2 samples were analyzed for MADEP VPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP VPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/7860

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

- B-07-02 8' (Lab ID: 92190355006)
  - 4-Bromofluorobenzene (FID) (S)
  - 4-Bromofluorobenzene (PID) (S)
- B-07-06 10' (Lab ID: 92190355007)
  - 4-Bromofluorobenzene (FID) (S)
  - 4-Bromofluorobenzene (PID) (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: March 08, 2014

Analyte Comments:

QC Batch: GCV/7860

N2: The lab does not hold TNI accreditation for this parameter.

- B-07-02 8' (Lab ID: 92190355006)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-07-06 10' (Lab ID: 92190355007)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- BLANK (Lab ID: 1152103)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 1152104)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 1152105)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP VPH**
Description: VPH NC Water
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for MADEP VPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: GCV/7835

N2: The lab does not hold TNI accreditation for this parameter.

- B-16/17-01 (Lab ID: 92190355003)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-01 (Lab ID: 92190355004)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- BLANK (Lab ID: 1148658)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **MADEP VPH**
Description: VPH NC Water
Client: NCDOT South East
Date: March 08, 2014

Analyte Comments:

QC Batch: GCV/7835

N2: The lab does not hold TNI accreditation for this parameter.

- DUPLICATE-2 (Lab ID: 92190355005)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 1148659)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 1148660)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NCDOT South East
Date: March 08, 2014

General Information:
5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 625**
Description: 625 MSSV
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for EPA 625. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/26010

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92190065001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1141553)
  - 2,4-Dimethylphenol
  - 2-Chlorophenol
  - N-Nitroso-di-n-propylamine
  - Phenol
  - bis(2-Chloroisopropyl) ether

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8270**
Description: 8270 MSSV Microwave
Client: NCDOT South East
Date: March 08, 2014

General Information:
2 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/26015

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- B-07-02 8' (Lab ID: 92190355006)
  - Nitrobenzene-d5 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/26015

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- B-07-02 8' (Lab ID: 92190355006)
  - Nitrobenzene-d5 (S)

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **SM 6200B**
Description: 6200B MSV
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for SM 6200B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/25905

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92190689006

R1: RPD value was outside control limits.

- MSD (Lab ID: 1145844)
  - 1,2,3-Trichloropropane
  - 1,2-Dibromo-3-chloropropane
  - Ethanol

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: NCDOT South East
Date: March 08, 2014

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: NCDOT South East
Date: March 08, 2014

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/25855

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1142404)
  - Bromomethane
  - Methylene Chloride

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/25855

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- B-07-06 10' (Lab ID: 92190355007)
  - Dichlorodifluoromethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: NCDOT South East
Date: March 08, 2014

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-13-01 6FT **Lab ID: 92190355001** Collected: 02/19/14 14:15 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**178**	mg/kg	6.2	1	02/20/14 16:30	02/21/14 15:40	68334-30-5	
Surrogates								
n-Pentacosane (S)	56	%	41-119	1	02/20/14 16:30	02/21/14 15:40	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**24.0**	mg/kg	5.3	1	02/21/14 09:04	02/21/14 16:26	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	124	%	70-167	1	02/21/14 09:04	02/21/14 16:26	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.5**	%	0.10	1		03/03/14 11:58		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE -1 **Lab ID: 92190355002** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**486**	mg/kg	12.0	2	02/20/14 16:30	02/21/14 17:43	68334-30-5	
Surrogates								
n-Pentacosane (S)	69	%	41-119	2	02/20/14 16:30	02/21/14 17:43	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**36.8**	mg/kg	4.8	1	02/21/14 09:04	02/21/14 17:35	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	147	%	70-167	1	02/21/14 09:04	02/21/14 17:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.9**	%	0.10	1		03/03/14 11:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-16/17-01 **Lab ID: 92190355003** Collected: 02/19/14 13:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015M Glycols in water	Analytical Method: EPA 8015 - Alcohol-Glycol							
Ethylene glycol	ND	mg/L	10.0	1		02/26/14 14:12	107-21-1	
MADEP EPH NC Water	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:13		N2
Aliphatic (C19-C36)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:13		N2
Aromatic (C11-C22)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:13		N2
Surrogates								
Nonatriacontane (S)	52	%	40-140	1	02/21/14 10:25	02/24/14 19:13	7194-86-7	
o-Terphenyl (S)	59	%	40-140	1	02/21/14 10:25	02/24/14 19:13	84-15-1	
2-Fluorobiphenyl (S)	43	%	40-140	1	02/21/14 10:25	02/24/14 19:13	321-60-8	
2-Bromonaphthalene (S)	62	%	40-140	1	02/21/14 10:25	02/24/14 19:13	580-13-2	
VPH NC Water	Analytical Method: MADEP VPH							
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/02/14 01:35		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/02/14 01:35		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/02/14 01:35		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	90	%	70-130	1		03/02/14 01:35	460-00-4	
4-Bromofluorobenzene (PID) (S)	84	%	70-130	1		03/02/14 01:35	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**5.8**	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:26	7440-47-3	
Lead	ND	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:26	7439-92-1	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	83-32-9	
Acenaphthylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	208-96-8	
Anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	101-55-3	
Butylbenzylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	108-60-1	
2-Chloronaphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	91-58-7	
2-Chlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	7005-72-3	
Chrysene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	25.0	1	02/20/14 13:00	02/28/14 03:24	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	120-83-2	

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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-16/17-01 **Lab ID: 92190355003** Collected: 02/19/14 13:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Diethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	105-67-9	
Dimethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	131-11-3	
Di-n-butylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/20/14 13:00	02/28/14 03:24	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 03:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	606-20-2	
Di-n-octylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	117-81-7	
Fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	206-44-0	
Fluorene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	87-68-3	
Hexachlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	77-47-4	
Hexachloroethane	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	78-59-1	
Naphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	91-20-3	
Nitrobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	98-95-3	
2-Nitrophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 03:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	86-30-6	
Pentachlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	87-86-5	
Phenanthrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	85-01-8	
Phenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	108-95-2	
Pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:24	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	39	%	10-120	1	02/20/14 13:00	02/28/14 03:24	4165-60-0	
2-Fluorobiphenyl (S)	37	%	15-120	1	02/20/14 13:00	02/28/14 03:24	321-60-8	
Terphenyl-d14 (S)	69	%	11-131	1	02/20/14 13:00	02/28/14 03:24	1718-51-0	
Phenol-d6 (S)	19	%	10-120	1	02/20/14 13:00	02/28/14 03:24	13127-88-3	
2-Fluorophenol (S)	26	%	10-120	1	02/20/14 13:00	02/28/14 03:24	367-12-4	
2,4,6-Tribromophenol (S)	59	%	10-137	1	02/20/14 13:00	02/28/14 03:24	118-79-6	
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		02/26/14 21:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/26/14 21:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/26/14 21:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/26/14 21:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/26/14 21:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/26/14 21:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	104-51-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-16/17-01 **Lab ID: 92190355003** Collected: 02/19/14 13:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
sec-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/26/14 21:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/26/14 21:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/26/14 21:32	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/26/14 21:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/26/14 21:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 21:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 21:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/26/14 21:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/26/14 21:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/26/14 21:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/26/14 21:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/26/14 21:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/26/14 21:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/26/14 21:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/26/14 21:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/26/14 21:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/26/14 21:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/26/14 21:32	108-20-3	
Ethanol	ND	ug/L	200	1		02/26/14 21:32	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/26/14 21:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/26/14 21:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/26/14 21:32	75-09-2	
Methyl-tert-butyl ether	**0.87**	ug/L	0.50	1		02/26/14 21:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/26/14 21:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	103-65-1	
Styrene	ND	ug/L	0.50	1		02/26/14 21:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 21:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 21:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/26/14 21:32	127-18-4	
Toluene	ND	ug/L	0.50	1		02/26/14 21:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 21:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 21:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/26/14 21:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/26/14 21:32	79-00-5	
Trichloroethene	**0.57**	ug/L	0.50	1		02/26/14 21:32	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-16/17-01 **Lab ID: 92190355003** Collected: 02/19/14 13:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/26/14 21:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/26/14 21:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 21:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/26/14 21:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/26/14 21:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/26/14 21:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		02/26/14 21:32	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		02/26/14 21:32	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/26/14 21:32	2037-26-5	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 02:55	67-64-1	
Benzene	ND	ug/L	1.0	1		02/22/14 02:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/22/14 02:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/22/14 02:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/22/14 02:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/22/14 02:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/22/14 02:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/22/14 02:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/14 02:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/14 02:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/14 02:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/14 02:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 02:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 02:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 02:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/22/14 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/22/14 02:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/22/14 02:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/22/14 02:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/14 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/14 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/22/14 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/14 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/14 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 02:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/22/14 02:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 02:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/22/14 02:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 02:55	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-16/17-01 **Lab ID: 92190355003** Collected: 02/19/14 13:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Diisopropyl ether	ND	ug/L	1.0	1		02/22/14 02:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/22/14 02:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/22/14 02:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/22/14 02:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/22/14 02:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/22/14 02:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/22/14 02:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/22/14 02:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/22/14 02:55	91-20-3	
Styrene	ND	ug/L	1.0	1		02/22/14 02:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 02:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 02:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/14 02:55	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/14 02:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/14 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/14 02:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/14 02:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/22/14 02:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/22/14 02:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/22/14 02:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/22/14 02:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/14 02:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/22/14 02:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/22/14 02:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/22/14 02:55	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/22/14 02:55	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		02/22/14 02:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-18-01 **Lab ID: 92190355004** Collected: 02/19/14 14:30 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015M Glycols in water	Analytical Method: EPA 8015 - Alcohol-Glycol							
Ethylene glycol	ND	mg/L	10.0	1		02/26/14 14:17	107-21-1	
MADEP EPH NC Water	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:45		N2
Aliphatic (C19-C36)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:45		N2
Aromatic (C11-C22)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 19:45		N2
Surrogates								
Nonatriacontane (S)	67	%	40-140	1	02/21/14 10:25	02/24/14 19:45	7194-86-7	
o-Terphenyl (S)	50	%	40-140	1	02/21/14 10:25	02/24/14 19:45	84-15-1	
2-Fluorobiphenyl (S)	61	%	40-140	1	02/21/14 10:25	02/24/14 19:45	321-60-8	
2-Bromonaphthalene (S)	74	%	40-140	1	02/21/14 10:25	02/24/14 19:45	580-13-2	
VPH NC Water	Analytical Method: MADEP VPH							
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/02/14 01:58		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/02/14 01:58		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/02/14 01:58		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	85	%	70-130	1		03/02/14 01:58	460-00-4	
4-Bromofluorobenzene (PID) (S)	82	%	70-130	1		03/02/14 01:58	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**10.4**	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:29	7440-47-3	
Lead	ND	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:29	7439-92-1	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	83-32-9	
Acenaphthylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	208-96-8	
Anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	108-60-1	
2-Chloronaphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	91-58-7	
2-Chlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	7005-72-3	
Chrysene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	25.0	1	02/20/14 13:00	02/28/14 03:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	120-83-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-18-01 **Lab ID: 92190355004** Collected: 02/19/14 14:30 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Diethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	105-67-9	
Dimethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/20/14 13:00	02/28/14 03:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 03:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	117-81-7	
Fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	206-44-0	
Fluorene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	87-68-3	
Hexachlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	77-47-4	
Hexachloroethane	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	78-59-1	
Naphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	91-20-3	
Nitrobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	98-95-3	
2-Nitrophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 03:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	86-30-6	
Pentachlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	87-86-5	
Phenanthrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	85-01-8	
Phenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	108-95-2	
Pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 03:51	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 03:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	48	%	10-120	1	02/20/14 13:00	02/28/14 03:51	4165-60-0	
2-Fluorobiphenyl (S)	48	%	15-120	1	02/20/14 13:00	02/28/14 03:51	321-60-8	
Terphenyl-d14 (S)	68	%	11-131	1	02/20/14 13:00	02/28/14 03:51	1718-51-0	
Phenol-d6 (S)	31	%	10-120	1	02/20/14 13:00	02/28/14 03:51	13127-88-3	
2-Fluorophenol (S)	35	%	10-120	1	02/20/14 13:00	02/28/14 03:51	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-137	1	02/20/14 13:00	02/28/14 03:51	118-79-6	
Tentatively Identified Compounds								
Unknown	**113**	ug/L		1	02/20/14 13:00	02/28/14 03:51		N
Unknown	**168**	ug/L		1	02/20/14 13:00	02/28/14 03:51		N
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		02/26/14 21:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/26/14 21:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/26/14 21:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/26/14 21:48	75-27-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-18-01 **Lab ID: 92190355004** Collected: 02/19/14 14:30 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Bromoform	ND	ug/L	0.50	1		02/26/14 21:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/26/14 21:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/26/14 21:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/26/14 21:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/26/14 21:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/26/14 21:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/26/14 21:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 21:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 21:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/26/14 21:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/26/14 21:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/26/14 21:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/26/14 21:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 21:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/26/14 21:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/26/14 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/26/14 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/26/14 21:48	75-35-4	
cis-1,2-Dichloroethene	**8.7**	ug/L	0.50	1		02/26/14 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/26/14 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 21:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 21:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/26/14 21:48	108-20-3	
Ethanol	ND	ug/L	200	1		02/26/14 21:48	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/26/14 21:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/26/14 21:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/26/14 21:48	75-09-2	
Methyl-tert-butyl ether	**1.3**	ug/L	0.50	1		02/26/14 21:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/26/14 21:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	103-65-1	
Styrene	ND	ug/L	0.50	1		02/26/14 21:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 21:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 21:48	79-34-5	
Tetrachloroethene	**28.9**	ug/L	0.50	1		02/26/14 21:48	127-18-4	
Toluene	ND	ug/L	0.50	1		02/26/14 21:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 21:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 21:48	120-82-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-18-01 **Lab ID: 92190355004** Collected: 02/19/14 14:30 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/26/14 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/26/14 21:48	79-00-5	
Trichloroethene	**8.8**	ug/L	0.50	1		02/26/14 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/26/14 21:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/26/14 21:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 21:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/26/14 21:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/26/14 21:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/26/14 21:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		02/26/14 21:48	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		02/26/14 21:48	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/26/14 21:48	2037-26-5	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:10	67-64-1	
Benzene	ND	ug/L	1.0	1		02/22/14 03:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/22/14 03:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/22/14 03:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/22/14 03:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/22/14 03:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/22/14 03:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/22/14 03:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/14 03:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/14 03:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/14 03:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/14 03:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 03:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 03:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/22/14 03:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/22/14 03:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/22/14 03:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/22/14 03:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/14 03:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/14 03:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/22/14 03:10	75-35-4	
cis-1,2-Dichloroethene	**7.4**	ug/L	1.0	1		02/22/14 03:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/14 03:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-18-01 **Lab ID: 92190355004** Collected: 02/19/14 14:30 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/22/14 03:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/22/14 03:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/22/14 03:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/22/14 03:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/22/14 03:10	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/22/14 03:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/22/14 03:10	108-10-1	
Methyl-tert-butyl ether	**1.1**	ug/L	1.0	1		02/22/14 03:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/22/14 03:10	91-20-3	
Styrene	ND	ug/L	1.0	1		02/22/14 03:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 03:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 03:10	79-34-5	
Tetrachloroethene	**30.1**	ug/L	1.0	1		02/22/14 03:10	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/14 03:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/14 03:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/14 03:10	79-00-5	
Trichloroethene	**9.0**	ug/L	1.0	1		02/22/14 03:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/22/14 03:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/22/14 03:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/22/14 03:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/22/14 03:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/14 03:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/22/14 03:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/22/14 03:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/22/14 03:10	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/22/14 03:10	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		02/22/14 03:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE-2 **Lab ID: 92190355005** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015M Glycols in water	Analytical Method: EPA 8015 - Alcohol-Glycol							
Ethylene glycol	ND	mg/L	10.0	1		02/26/14 14:22	107-21-1	
MADEP EPH NC Water	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 20:17		N2
Aliphatic (C19-C36)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 20:17		N2
Aromatic (C11-C22)	ND	ug/L	100	1	02/21/14 10:25	02/24/14 20:17		N2
Surrogates								
Nonatriacontane (S)	58	%	40-140	1	02/21/14 10:25	02/24/14 20:17	7194-86-7	
o-Terphenyl (S)	73	%	40-140	1	02/21/14 10:25	02/24/14 20:17	84-15-1	
2-Fluorobiphenyl (S)	83	%	40-140	1	02/21/14 10:25	02/24/14 20:17	321-60-8	
2-Bromonaphthalene (S)	104	%	40-140	1	02/21/14 10:25	02/24/14 20:17	580-13-2	
VPH NC Water	Analytical Method: MADEP VPH							
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/02/14 02:21		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/02/14 02:21		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/02/14 02:21		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	86	%	70-130	1		03/02/14 02:21	460-00-4	
4-Bromofluorobenzene (PID) (S)	83	%	70-130	1		03/02/14 02:21	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:33	7440-47-3	
Lead	ND	ug/L	5.0	1	02/21/14 10:00	02/21/14 22:33	7439-92-1	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	83-32-9	
Acenaphthylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	208-96-8	
Anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	101-55-3	
Butylbenzylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	108-60-1	
2-Chloronaphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	91-58-7	
2-Chlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	7005-72-3	
Chrysene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	25.0	1	02/20/14 13:00	02/28/14 04:17	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	120-83-2	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE-2 **Lab ID: 92190355005** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Diethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	105-67-9	
Dimethylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/20/14 13:00	02/28/14 04:17	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 04:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	606-20-2	
Di-n-octylphthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	117-81-7	
Fluoranthene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	206-44-0	
Fluorene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	87-68-3	
Hexachlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	77-47-4	
Hexachloroethane	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	78-59-1	
Naphthalene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	91-20-3	
Nitrobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	98-95-3	
2-Nitrophenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/20/14 13:00	02/28/14 04:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	86-30-6	
Pentachlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	87-86-5	
Phenanthrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	85-01-8	
Phenol	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	108-95-2	
Pyrene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1	02/20/14 13:00	02/28/14 04:17	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/20/14 13:00	02/28/14 04:17	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	42	%	10-120	1	02/20/14 13:00	02/28/14 04:17	4165-60-0	
2-Fluorobiphenyl (S)	44	%	15-120	1	02/20/14 13:00	02/28/14 04:17	321-60-8	
Terphenyl-d14 (S)	79	%	11-131	1	02/20/14 13:00	02/28/14 04:17	1718-51-0	
Phenol-d6 (S)	17	%	10-120	1	02/20/14 13:00	02/28/14 04:17	13127-88-3	
2-Fluorophenol (S)	26	%	10-120	1	02/20/14 13:00	02/28/14 04:17	367-12-4	
2,4,6-Tribromophenol (S)	58	%	10-137	1	02/20/14 13:00	02/28/14 04:17	118-79-6	
Tentatively Identified Compounds								
Tetrachloroethylene	**5.1**	ug/L		1	02/20/14 13:00	02/28/14 04:17	127-18-4	N
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		02/26/14 22:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/26/14 22:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/26/14 22:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/26/14 22:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/26/14 22:05	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE-2 **Lab ID: 92190355005** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Bromomethane	ND	ug/L	5.0	1		02/26/14 22:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/26/14 22:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/26/14 22:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/26/14 22:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/26/14 22:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/26/14 22:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 22:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/26/14 22:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/26/14 22:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/26/14 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/26/14 22:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/26/14 22:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/26/14 22:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/26/14 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/26/14 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/26/14 22:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/26/14 22:05	75-35-4	
cis-1,2-Dichloroethene	**8.9**	ug/L	0.50	1		02/26/14 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/26/14 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 22:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/26/14 22:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/26/14 22:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		02/26/14 22:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/26/14 22:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/26/14 22:05	108-20-3	
Ethanol	ND	ug/L	200	1		02/26/14 22:05	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/26/14 22:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/26/14 22:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/26/14 22:05	75-09-2	
Methyl-tert-butyl ether	**1.4**	ug/L	0.50	1		02/26/14 22:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/26/14 22:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	103-65-1	
Styrene	ND	ug/L	0.50	1		02/26/14 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 22:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/26/14 22:05	79-34-5	
Tetrachloroethene	**28.1**	ug/L	0.50	1		02/26/14 22:05	127-18-4	
Toluene	ND	ug/L	0.50	1		02/26/14 22:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 22:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/26/14 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/26/14 22:05	71-55-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE-2 **Lab ID: 92190355005** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/26/14 22:05	79-00-5	
Trichloroethene	**8.6**	ug/L	0.50	1		02/26/14 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/26/14 22:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/26/14 22:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/26/14 22:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/26/14 22:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/26/14 22:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/26/14 22:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		02/26/14 22:05	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		02/26/14 22:05	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/26/14 22:05	2037-26-5	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:26	67-64-1	
Benzene	ND	ug/L	1.0	1		02/22/14 03:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/22/14 03:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/22/14 03:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/22/14 03:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/22/14 03:26	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/22/14 03:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/22/14 03:26	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/14 03:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/14 03:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/14 03:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/14 03:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 03:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/22/14 03:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/22/14 03:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/22/14 03:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/22/14 03:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/22/14 03:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/14 03:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/14 03:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/22/14 03:26	75-35-4	
cis-1,2-Dichloroethene	**7.2**	ug/L	1.0	1		02/22/14 03:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/14 03:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/22/14 03:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:26	563-58-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: DUPLICATE-2 **Lab ID: 92190355005** Collected: 02/19/14 00:00 Received: 02/20/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/14 03:26	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/22/14 03:26	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/22/14 03:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/22/14 03:26	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/22/14 03:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/22/14 03:26	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/22/14 03:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/22/14 03:26	108-10-1	
Methyl-tert-butyl ether	**1.1**	ug/L	1.0	1		02/22/14 03:26	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/22/14 03:26	91-20-3	
Styrene	ND	ug/L	1.0	1		02/22/14 03:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 03:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/14 03:26	79-34-5	
Tetrachloroethene	**29.5**	ug/L	1.0	1		02/22/14 03:26	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/14 03:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/22/14 03:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/14 03:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/14 03:26	79-00-5	
Trichloroethene	**8.7**	ug/L	1.0	1		02/22/14 03:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/22/14 03:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/22/14 03:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/22/14 03:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/22/14 03:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/14 03:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/22/14 03:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/22/14 03:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/22/14 03:26	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/22/14 03:26	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		02/22/14 03:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-02 8' **Lab ID: 92190355006** Collected: 02/18/14 16:20 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**559**	mg/kg	11.3	2	02/22/14 11:00	02/24/14 14:54	68334-30-5	
Surrogates								
n-Pentacosane (S)	90	%	41-119	2	02/22/14 11:00	02/24/14 14:54	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	**202**	mg/kg	90.7	8	02/24/14 15:58	02/26/14 17:16		N2
Aliphatic (C19-C36)	ND	mg/kg	90.7	8	02/24/14 15:58	02/26/14 17:16		N2
Aromatic (C11-C22)	**90.0**	mg/kg	11.3	1	02/24/14 15:58	02/26/14 01:39		N2
Surrogates								
Nonatriacontane (S)	0	%	40-140	8	02/24/14 15:58	02/26/14 17:16	7194-86-7	S4
o-Terphenyl (S)	81	%	40-140	1	02/24/14 15:58	02/26/14 01:39	84-15-1	
2-Fluorobiphenyl (S)	101	%	40-140	1	02/24/14 15:58	02/26/14 01:39	321-60-8	
2-Bromonaphthalene (S)	136	%	40-140	1	02/24/14 15:58	02/26/14 01:39	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**3760**	mg/kg	97.6	20	02/28/14 02:49	02/28/14 21:36	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	114	%	70-167	20	02/28/14 02:49	02/28/14 21:36	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	**280**	mg/kg	31.4	10	03/06/14 17:00	03/07/14 12:13		N2
Aliphatic (C09-C12)	**1260**	mg/kg	31.4	10	03/06/14 17:00	03/07/14 12:13		N2
Aromatic (C09-C10)	**743**	mg/kg	31.4	10	03/06/14 17:00	03/07/14 12:13		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	227	%	70-130	10	03/06/14 17:00	03/07/14 12:13	460-00-4	S1
4-Bromofluorobenzene (PID) (S)	244	%	70-130	10	03/06/14 17:00	03/07/14 12:13	460-00-4	S1
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**5.5**	mg/kg	0.44	1	02/26/14 13:05	02/27/14 02:45	7440-47-3	
Lead	**34.8**	mg/kg	0.44	1	02/26/14 13:05	02/27/14 02:45	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	83-32-9	
Acenaphthylene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	208-96-8	
Aniline	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	62-53-3	
Anthracene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	207-08-9	
Benzoic Acid	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	65-85-0	
Benzyl alcohol	ND	ug/kg	7480	10	02/20/14 16:05	02/26/14 19:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	7480	10	02/20/14 16:05	02/26/14 19:45	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-02 8' **Lab ID: 92190355006** Collected: 02/18/14 16:20 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	91-58-7	
2-Chlorophenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	7005-72-3	
Chrysene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	53-70-3	
Dibenzofuran	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	120-83-2	
Diethylphthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	105-67-9	
Dimethylphthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	7480	10	02/20/14 16:05	02/26/14 19:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	117-81-7	
Fluoranthene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	206-44-0	
Fluorene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	77-47-4	
Hexachloroethane	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	193-39-5	
Isophorone	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	78-59-1	
1-Methylnaphthalene	**8220**	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	90-12-0	
2-Methylnaphthalene	**15100**	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45		
Naphthalene	**23800**	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	91-20-3	
2-Nitroaniline	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	88-74-4	
3-Nitroaniline	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	99-09-2	
4-Nitroaniline	ND	ug/kg	7480	10	02/20/14 16:05	02/26/14 19:45	100-01-6	
Nitrobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	98-95-3	
2-Nitrophenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	88-75-5	
4-Nitrophenol	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-02 8' **Lab ID: 92190355006** Collected: 02/18/14 16:20 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	86-30-6	
Pentachlorophenol	ND	ug/kg	18700	10	02/20/14 16:05	02/26/14 19:45	87-86-5	
Phenanthrene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	85-01-8	
Phenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	108-95-2	
Pyrene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	3740	10	02/20/14 16:05	02/26/14 19:45	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	23-110	10	02/20/14 16:05	02/26/14 19:45	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110	10	02/20/14 16:05	02/26/14 19:45	321-60-8	
Terphenyl-d14 (S)	0	%	28-110	10	02/20/14 16:05	02/26/14 19:45	1718-51-0	
Phenol-d6 (S)	0	%	22-110	10	02/20/14 16:05	02/26/14 19:45	13127-88-3	
2-Fluorophenol (S)	0	%	13-110	10	02/20/14 16:05	02/26/14 19:45	367-12-4	
2,4,6-Tribromophenol (S)	0	%	27-110	10	02/20/14 16:05	02/26/14 19:45	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	106000	1000		02/21/14 19:24	67-64-1	
Benzene	ND	ug/kg	5290	1000		02/21/14 19:24	71-43-2	
Bromobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	108-86-1	
Bromochloromethane	ND	ug/kg	5290	1000		02/21/14 19:24	74-97-5	
Bromodichloromethane	ND	ug/kg	5290	1000		02/21/14 19:24	75-27-4	
Bromoform	ND	ug/kg	5290	1000		02/21/14 19:24	75-25-2	
Bromomethane	ND	ug/kg	10600	1000		02/21/14 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	106000	1000		02/21/14 19:24	78-93-3	
n-Butylbenzene	**30500**	ug/kg	5290	1000		02/21/14 19:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	5290	1000		02/21/14 19:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	5290	1000		02/21/14 19:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	5290	1000		02/21/14 19:24	56-23-5	
Chlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	108-90-7	
Chloroethane	ND	ug/kg	10600	1000		02/21/14 19:24	75-00-3	
Chloroform	ND	ug/kg	5290	1000		02/21/14 19:24	67-66-3	
Chloromethane	ND	ug/kg	10600	1000		02/21/14 19:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	5290	1000		02/21/14 19:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	5290	1000		02/21/14 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5290	1000		02/21/14 19:24	96-12-8	
Dibromochloromethane	ND	ug/kg	5290	1000		02/21/14 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5290	1000		02/21/14 19:24	106-93-4	
Dibromomethane	ND	ug/kg	5290	1000		02/21/14 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10600	1000		02/21/14 19:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5290	1000		02/21/14 19:24	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-02 8' **Lab ID: 92190355006** Collected: 02/18/14 16:20 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	5290	1000		02/21/14 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5290	1000		02/21/14 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5290	1000		02/21/14 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5290	1000		02/21/14 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5290	1000		02/21/14 19:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5290	1000		02/21/14 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5290	1000		02/21/14 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5290	1000		02/21/14 19:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	5290	1000		02/21/14 19:24	108-20-3	
Ethylbenzene	**81300**	ug/kg	5290	1000		02/21/14 19:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5290	1000		02/21/14 19:24	87-68-3	
2-Hexanone	ND	ug/kg	52900	1000		02/21/14 19:24	591-78-6	
Isopropylbenzene (Cumene)	**30700**	ug/kg	5290	1000		02/21/14 19:24	98-82-8	
p-Isopropyltoluene	**22000**	ug/kg	5290	1000		02/21/14 19:24	99-87-6	
Methylene Chloride	ND	ug/kg	21100	1000		02/21/14 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	52900	1000		02/21/14 19:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5290	1000		02/21/14 19:24	1634-04-4	
Naphthalene	**41300**	ug/kg	5290	1000		02/21/14 19:24	91-20-3	
n-Propylbenzene	**68000**	ug/kg	5290	1000		02/21/14 19:24	103-65-1	
Styrene	ND	ug/kg	5290	1000		02/21/14 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5290	1000		02/21/14 19:24	127-18-4	
Toluene	**36700**	ug/kg	5290	1000		02/21/14 19:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5290	1000		02/21/14 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5290	1000		02/21/14 19:24	79-00-5	
Trichloroethene	ND	ug/kg	5290	1000		02/21/14 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5290	1000		02/21/14 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5290	1000		02/21/14 19:24	96-18-4	
1,2,4-Trimethylbenzene	**329000**	ug/kg	26400	5000		02/24/14 18:12	95-63-6	
1,3,5-Trimethylbenzene	**109000**	ug/kg	5290	1000		02/21/14 19:24	108-67-8	
Vinyl acetate	ND	ug/kg	52900	1000		02/21/14 19:24	108-05-4	
Vinyl chloride	ND	ug/kg	10600	1000		02/21/14 19:24	75-01-4	
Xylene (Total)	**285000**	ug/kg	10600	1000		02/21/14 19:24	1330-20-7	
m&p-Xylene	**196000**	ug/kg	10600	1000		02/21/14 19:24	179601-23-1	
o-Xylene	**89600**	ug/kg	5290	1000		02/21/14 19:24	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1000		02/21/14 19:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1000		02/21/14 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	1000		02/21/14 19:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.8**	%	0.10	1		03/03/14 11:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-06 10' **Lab ID: 92190355007** Collected: 02/18/14 16:10 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.9	1	02/22/14 11:00	02/24/14 10:30	68334-30-5	
Surrogates								
n-Pentacosane (S)	84	%	41-119	1	02/22/14 11:00	02/24/14 10:30	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.8	1	02/24/14 15:58	02/26/14 02:11		N2
Aliphatic (C19-C36)	ND	mg/kg	11.8	1	02/24/14 15:58	02/26/14 02:11		N2
Aromatic (C11-C22)	ND	mg/kg	11.8	1	02/24/14 15:58	02/26/14 02:11		N2
Surrogates								
Nonatriacontane (S)	72	%	40-140	1	02/24/14 15:58	02/26/14 02:11	7194-86-7	
o-Terphenyl (S)	79	%	40-140	1	02/24/14 15:58	02/26/14 02:11	84-15-1	
2-Fluorobiphenyl (S)	73	%	40-140	1	02/24/14 15:58	02/26/14 02:11	321-60-8	
2-Bromonaphthalene (S)	81	%	40-140	1	02/24/14 15:58	02/26/14 02:11	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**10.3**	mg/kg	6.2	1	02/28/14 02:49	02/28/14 21:13	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-167	1	02/28/14 02:49	02/28/14 21:13	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.4	1	03/06/14 17:00	03/07/14 13:22		N2
Aliphatic (C09-C12)	ND	mg/kg	3.4	1	03/06/14 17:00	03/07/14 13:22		N2
Aromatic (C09-C10)	ND	mg/kg	3.4	1	03/06/14 17:00	03/07/14 13:22		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	219	%	70-130	1	03/06/14 17:00	03/07/14 13:22	460-00-4	S1
4-Bromofluorobenzene (PID) (S)	204	%	70-130	1	03/06/14 17:00	03/07/14 13:22	460-00-4	S1
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**5.4**	mg/kg	0.57	1	02/26/14 13:05	02/27/14 02:48	7440-47-3	
Lead	**9.0**	mg/kg	0.57	1	02/26/14 13:05	02/27/14 02:48	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	83-32-9	
Acenaphthylene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	208-96-8	
Aniline	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	62-53-3	
Anthracene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	120-12-7	
Benzo(a)anthracene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	65-85-0	
Benzyl alcohol	ND	ug/kg	780	1	02/20/14 16:05	02/26/14 20:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	780	1	02/20/14 16:05	02/26/14 20:12	59-50-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-06 10' **Lab ID: 92190355007** Collected: 02/18/14 16:10 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	91-58-7	
2-Chlorophenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	7005-72-3	
Chrysene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	53-70-3	
Dibenzofuran	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	120-83-2	
Diethylphthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	105-67-9	
Dimethylphthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	131-11-3	
Di-n-butylphthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	780	1	02/20/14 16:05	02/26/14 20:12	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	606-20-2	
Di-n-octylphthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	117-81-7	
Fluoranthene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	206-44-0	
Fluorene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	87-68-3	
Hexachlorobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	77-47-4	
Hexachloroethane	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	193-39-5	
Isophorone	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	78-59-1	
1-Methylnaphthalene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	90-12-0	
2-Methylnaphthalene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12		
Naphthalene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	99-09-2	
4-Nitroaniline	ND	ug/kg	780	1	02/20/14 16:05	02/26/14 20:12	100-01-6	
Nitrobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	98-95-3	
2-Nitrophenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-06 10' **Lab ID: 92190355007** Collected: 02/18/14 16:10 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	02/20/14 16:05	02/26/14 20:12	87-86-5	
Phenanthrene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	85-01-8	
Phenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	108-95-2	
Pyrene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	390	1	02/20/14 16:05	02/26/14 20:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	68	%	23-110	1	02/20/14 16:05	02/26/14 20:12	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-110	1	02/20/14 16:05	02/26/14 20:12	321-60-8	
Terphenyl-d14 (S)	54	%	28-110	1	02/20/14 16:05	02/26/14 20:12	1718-51-0	
Phenol-d6 (S)	74	%	22-110	1	02/20/14 16:05	02/26/14 20:12	13127-88-3	
2-Fluorophenol (S)	70	%	13-110	1	02/20/14 16:05	02/26/14 20:12	367-12-4	
2,4,6-Tribromophenol (S)	84	%	27-110	1	02/20/14 16:05	02/26/14 20:12	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2280	25		02/21/14 19:43	67-64-1	
Benzene	ND	ug/kg	114	25		02/21/14 19:43	71-43-2	
Bromobenzene	ND	ug/kg	114	25		02/21/14 19:43	108-86-1	
Bromochloromethane	ND	ug/kg	114	25		02/21/14 19:43	74-97-5	
Bromodichloromethane	ND	ug/kg	114	25		02/21/14 19:43	75-27-4	
Bromoform	ND	ug/kg	114	25		02/21/14 19:43	75-25-2	
Bromomethane	ND	ug/kg	228	25		02/21/14 19:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2280	25		02/21/14 19:43	78-93-3	
n-Butylbenzene	ND	ug/kg	114	25		02/21/14 19:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	114	25		02/21/14 19:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	114	25		02/21/14 19:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	114	25		02/21/14 19:43	56-23-5	
Chlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	108-90-7	
Chloroethane	ND	ug/kg	228	25		02/21/14 19:43	75-00-3	
Chloroform	ND	ug/kg	114	25		02/21/14 19:43	67-66-3	
Chloromethane	ND	ug/kg	228	25		02/21/14 19:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	114	25		02/21/14 19:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	114	25		02/21/14 19:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	114	25		02/21/14 19:43	96-12-8	
Dibromochloromethane	ND	ug/kg	114	25		02/21/14 19:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	114	25		02/21/14 19:43	106-93-4	
Dibromomethane	ND	ug/kg	114	25		02/21/14 19:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	25		02/21/14 19:43	75-71-8	D3
1,1-Dichloroethane	ND	ug/kg	114	25		02/21/14 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	114	25		02/21/14 19:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	114	25		02/21/14 19:43	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Sample: B-07-06 10' **Lab ID: 92190355007** Collected: 02/18/14 16:10 Received: 02/20/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	114	25		02/21/14 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	114	25		02/21/14 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	114	25		02/21/14 19:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	114	25		02/21/14 19:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	114	25		02/21/14 19:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	114	25		02/21/14 19:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	114	25		02/21/14 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	114	25		02/21/14 19:43	10061-02-6	
Diisopropyl ether	ND	ug/kg	114	25		02/21/14 19:43	108-20-3	
Ethylbenzene	ND	ug/kg	114	25		02/21/14 19:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	114	25		02/21/14 19:43	87-68-3	
2-Hexanone	ND	ug/kg	1140	25		02/21/14 19:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	114	25		02/21/14 19:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	114	25		02/21/14 19:43	99-87-6	
Methylene Chloride	ND	ug/kg	456	25		02/21/14 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1140	25		02/21/14 19:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	114	25		02/21/14 19:43	1634-04-4	
Naphthalene	ND	ug/kg	114	25		02/21/14 19:43	91-20-3	
n-Propylbenzene	**119**	ug/kg	114	25		02/21/14 19:43	103-65-1	
Styrene	ND	ug/kg	114	25		02/21/14 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	114	25		02/21/14 19:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	114	25		02/21/14 19:43	79-34-5	
Tetrachloroethene	ND	ug/kg	114	25		02/21/14 19:43	127-18-4	
Toluene	ND	ug/kg	114	25		02/21/14 19:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	114	25		02/21/14 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	114	25		02/21/14 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	114	25		02/21/14 19:43	79-00-5	
Trichloroethene	ND	ug/kg	114	25		02/21/14 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	114	25		02/21/14 19:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	114	25		02/21/14 19:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	114	25		02/21/14 19:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	114	25		02/21/14 19:43	108-67-8	
Vinyl acetate	ND	ug/kg	1140	25		02/21/14 19:43	108-05-4	
Vinyl chloride	ND	ug/kg	228	25		02/21/14 19:43	75-01-4	
Xylene (Total)	ND	ug/kg	228	25		02/21/14 19:43	1330-20-7	
m&p-Xylene	ND	ug/kg	228	25		02/21/14 19:43	179601-23-1	
o-Xylene	ND	ug/kg	114	25		02/21/14 19:43	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	25		02/21/14 19:43	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	25		02/21/14 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	76	%	70-132	25		02/21/14 19:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.4**	%	0.10	1		03/03/14 11:58		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: GCSV/12153 Analysis Method: EPA 8015 - Alcohol-Glycol
QC Batch Method: EPA 8015 - Alcohol-Glycol Analysis Description: EPA 8015 Modified
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1052253 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylene glycol	mg/L	ND	10.0	02/26/14 12:29	

LABORATORY CONTROL SAMPLE: 1052254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylene glycol	mg/L	250	218	87	79-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1052255 1052256

Parameter	Units	60163155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethylene glycol	mg/L	ND	250	250	284	261	112	103	67-133	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: GCV/7826 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92190355001, 92190355002

METHOD BLANK: 1142278 Matrix: Solid
Associated Lab Samples: 92190355001, 92190355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	02/21/14 12:12	
4-Bromofluorobenzene (S)	%	96	70-167	02/21/14 12:12	

LABORATORY CONTROL SAMPLE: 1142279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.8	55.4	111	70-165	
4-Bromofluorobenzene (S)	%			105	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142280 1142281

Parameter	Units	92190355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	24.0	44.5	44.5	77.8	89.0	121	146	47-187	13	
4-Bromofluorobenzene (S)	%						130	122	70-167		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142282 1142283

Parameter	Units	92190355002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	36.8	40	40	91.6	95.6	137	147	47-187	4	
4-Bromofluorobenzene (S)	%						161	162	70-167		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: GCV/7833 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1148112 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	02/28/14 15:21	
4-Bromofluorobenzene (S)	%	101	70-167	02/28/14 15:21	

LABORATORY CONTROL SAMPLE: 1148113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	48.9	98	70-165	
4-Bromofluorobenzene (S)	%			98	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148114 1148115

Parameter	Units	92190992004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	48.6	48.6	51.6	53.5	106	110	47-187	3	
4-Bromofluorobenzene (S)	%						100	96	70-167		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: GCV/7860 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1152103 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	03/06/14 19:42	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	03/06/14 19:42	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	03/06/14 19:42	N2
4-Bromofluorobenzene (FID) (S)	%	121	70-130	03/06/14 19:42	
4-Bromofluorobenzene (PID) (S)	%	108	70-130	03/06/14 19:42	

LABORATORY CONTROL SAMPLE & LCSD: 1152104 1152105

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	7.5	6.6	6.4	88	85	70-130	4	25	N2
Aliphatic (C09-C12)	mg/kg	7.5	4.3	4.1	57	55	30-130	4	25	N2
Aromatic (C09-C10)	mg/kg	2.5	ND	ND	92	87	70-130		25	N2
4-Bromofluorobenzene (FID) (S)	%				75	72	70-130			
4-Bromofluorobenzene (PID) (S)	%				81	77	70-130			

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: GCV/7835 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1148658 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/01/14 20:36	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/01/14 20:36	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/01/14 20:36	N2
4-Bromofluorobenzene (FID) (S)	%	92	70-130	03/01/14 20:36	
4-Bromofluorobenzene (PID) (S)	%	91	70-130	03/01/14 20:36	

LABORATORY CONTROL SAMPLE & LCSD: 1148659 1148660

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	272	261	91	87	70-130	4	25	N2
Aliphatic (C09-C12)	ug/L	300	316	297	105	99	30-130	6	25	N2
Aromatic (C09-C10)	ug/L	100	108	105	108	105	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				103	102	70-130			

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: MPRP/15312 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1145621 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	02/27/14 01:27	
Lead	mg/kg	ND	0.50	02/27/14 01:27	

LABORATORY CONTROL SAMPLE: 1145622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	50.7	101	80-120	
Lead	mg/kg	50	51.5	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145623 1145624

Parameter	Units	92190738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium	mg/kg	2.85 ug/g	43.1	46.3	46.0	49.7	100	101	75-125	8	
Lead	mg/kg	0.905 ug/g	43.1	46.3	46.3	48.2	105	102	75-125	4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: MPRP/15285 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1142293 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	ND	5.0	02/21/14 20:58	
Lead	ug/L	ND	5.0	02/21/14 20:58	

LABORATORY CONTROL SAMPLE: 1142294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	509	102	80-120	
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142295 1142296

Parameter	Units	92190489009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium	ug/L	28.9	500	500	523	523	99	99	75-125	0	
Lead	ug/L	20.4	500	500	468	469	90	90	75-125	0	

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: MSV/25905 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1145841 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,1-Dichloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,1-Dichloroethene	ug/L	ND	0.50	02/26/14 18:47	
1,1-Dichloropropene	ug/L	ND	0.50	02/26/14 18:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/26/14 18:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/26/14 18:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/26/14 18:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/26/14 18:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/26/14 18:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/26/14 18:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/26/14 18:47	
1,2-Dichloroethane	ug/L	ND	0.50	02/26/14 18:47	
1,2-Dichloropropane	ug/L	ND	0.50	02/26/14 18:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/26/14 18:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/26/14 18:47	
1,3-Dichloropropane	ug/L	ND	0.50	02/26/14 18:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/26/14 18:47	
2,2-Dichloropropane	ug/L	ND	0.50	02/26/14 18:47	
2-Chlorotoluene	ug/L	ND	0.50	02/26/14 18:47	
4-Chlorotoluene	ug/L	ND	0.50	02/26/14 18:47	
Benzene	ug/L	ND	0.50	02/26/14 18:47	
Bromobenzene	ug/L	ND	0.50	02/26/14 18:47	
Bromochloromethane	ug/L	ND	0.50	02/26/14 18:47	
Bromodichloromethane	ug/L	ND	0.50	02/26/14 18:47	
Bromoform	ug/L	ND	0.50	02/26/14 18:47	
Bromomethane	ug/L	ND	5.0	02/26/14 18:47	
Carbon tetrachloride	ug/L	ND	0.50	02/26/14 18:47	
Chlorobenzene	ug/L	ND	0.50	02/26/14 18:47	
Chloroethane	ug/L	ND	1.0	02/26/14 18:47	
Chloroform	ug/L	ND	0.50	02/26/14 18:47	
Chloromethane	ug/L	ND	1.0	02/26/14 18:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/26/14 18:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/26/14 18:47	
Dibromochloromethane	ug/L	ND	0.50	02/26/14 18:47	
Dibromomethane	ug/L	ND	0.50	02/26/14 18:47	
Dichlorodifluoromethane	ug/L	ND	0.50	02/26/14 18:47	
Diisopropyl ether	ug/L	ND	0.50	02/26/14 18:47	
Ethanol	ug/L	ND	200	02/26/14 18:47	
Ethylbenzene	ug/L	ND	0.50	02/26/14 18:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/26/14 18:47	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

METHOD BLANK: 1145841 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/26/14 18:47	
m&p-Xylene	ug/L	ND	1.0	02/26/14 18:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/26/14 18:47	
Methylene Chloride	ug/L	ND	2.0	02/26/14 18:47	
n-Butylbenzene	ug/L	ND	0.50	02/26/14 18:47	
n-Propylbenzene	ug/L	ND	0.50	02/26/14 18:47	
Naphthalene	ug/L	ND	2.0	02/26/14 18:47	
o-Xylene	ug/L	ND	0.50	02/26/14 18:47	
sec-Butylbenzene	ug/L	ND	0.50	02/26/14 18:47	
Styrene	ug/L	ND	0.50	02/26/14 18:47	
tert-Butylbenzene	ug/L	ND	0.50	02/26/14 18:47	
Tetrachloroethene	ug/L	ND	0.50	02/26/14 18:47	
Toluene	ug/L	ND	0.50	02/26/14 18:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/26/14 18:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/26/14 18:47	
Trichloroethene	ug/L	ND	0.50	02/26/14 18:47	
Trichlorofluoromethane	ug/L	ND	1.0	02/26/14 18:47	
Vinyl chloride	ug/L	ND	1.0	02/26/14 18:47	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/26/14 18:47	
4-Bromofluorobenzene (S)	%	98	70-130	02/26/14 18:47	
Toluene-d8 (S)	%	101	70-130	02/26/14 18:47	

LABORATORY CONTROL SAMPLE: 1145842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.0	98	60-140	
1,1,1-Trichloroethane	ug/L	50	53.7	107	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,2-Trichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethene	ug/L	50	48.0	96	60-140	
1,1-Dichloropropene	ug/L	50	51.3	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.1	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.8	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.7	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	60-140	
1,2-Dichlorobenzene	ug/L	50	48.3	97	60-140	
1,2-Dichloroethane	ug/L	50	47.9	96	60-140	
1,2-Dichloropropane	ug/L	50	50.1	100	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.4	105	60-140	
1,3-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,3-Dichloropropane	ug/L	50	51.3	103	60-140	
1,4-Dichlorobenzene	ug/L	50	47.7	95	60-140	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1145842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	55.4	111	60-140	
2-Chlorotoluene	ug/L	50	48.4	97	60-140	
4-Chlorotoluene	ug/L	50	49.8	100	60-140	
Benzene	ug/L	50	52.3	105	60-140	
Bromobenzene	ug/L	50	49.8	100	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	55.3	111	60-140	
Bromoform	ug/L	50	44.8	90	60-140	
Bromomethane	ug/L	50	36.3	73	60-140	
Carbon tetrachloride	ug/L	50	46.6	93	60-140	
Chlorobenzene	ug/L	50	50.6	101	60-140	
Chloroethane	ug/L	50	48.7	97	60-140	
Chloroform	ug/L	50	51.2	102	60-140	
Chloromethane	ug/L	50	45.3	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	60-140	
Dibromochloromethane	ug/L	50	48.0	96	60-140	
Dibromomethane	ug/L	50	50.6	101	60-140	
Dichlorodifluoromethane	ug/L	50	38.5	77	60-140	
Diisopropyl ether	ug/L	50	50.4	101	60-140	
Ethanol	ug/L	2000	1710	85	60-140	
Ethylbenzene	ug/L	50	50.8	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	54.0	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.5	101	60-140	
Methylene Chloride	ug/L	50	53.9	108	60-140	
n-Butylbenzene	ug/L	50	50.8	102	60-140	
n-Propylbenzene	ug/L	50	52.7	105	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	52.2	104	60-140	
sec-Butylbenzene	ug/L	50	52.1	104	60-140	
Styrene	ug/L	50	55.3	111	60-140	
tert-Butylbenzene	ug/L	50	51.8	104	60-140	
Tetrachloroethene	ug/L	50	51.2	102	60-140	
Toluene	ug/L	50	50.5	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	47.5	95	60-140	
Trichloroethene	ug/L	50	49.9	100	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	48.4	97	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145843 1145844

Parameter	Units	92190689006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.9	14.3	89	72	60-140	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.3	17.1	106	85	60-140	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	15.3	103	76	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.3	16.5	107	83	60-140	25	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	16.8	105	84	60-140	22	
1,1-Dichloroethene	ug/L	ND	20	20	20.2	16.8	101	84	60-140	19	
1,1-Dichloropropene	ug/L	ND	20	20	21.4	17.2	107	86	60-140	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.4	14.0	87	70	60-140	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.3	14.8	101	74	60-140	31	R1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.4	14.0	87	70	60-140	22	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.3	15.1	96	76	60-140	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.5	16.2	113	81	60-140	32	R1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	16.4	108	82	60-140	27	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.2	14.2	91	71	60-140	24	
1,2-Dichloroethane	ug/L	2.4	20	20	23.0	18.1	103	79	60-140	24	
1,2-Dichloropropane	ug/L	ND	20	20	20.6	16.0	103	80	60-140	25	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.5	15.5	97	77	60-140	23	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.7	13.9	89	70	60-140	24	
1,3-Dichloropropane	ug/L	ND	20	20	21.2	16.2	106	81	60-140	26	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.6	14.1	88	70	60-140	23	
2,2-Dichloropropane	ug/L	ND	20	20	18.8	15.5	94	78	60-140	19	
2-Chlorotoluene	ug/L	ND	20	20	18.7	14.9	94	74	60-140	23	
4-Chlorotoluene	ug/L	ND	20	20	19.0	14.9	95	74	60-140	24	
Benzene	ug/L	ND	20	20	20.7	16.6	104	83	60-140	22	
Bromobenzene	ug/L	ND	20	20	19.0	14.8	95	74	60-140	25	
Bromochloromethane	ug/L	ND	20	20	22.3	17.5	112	88	60-140	24	
Bromodichloromethane	ug/L	ND	20	20	19.5	15.6	98	78	60-140	22	
Bromoform	ug/L	ND	20	20	15.7	13.0	78	65	60-140	19	
Bromomethane	ug/L	ND	20	20	14.7	15.1	74	76	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	17.5	15.6	88	78	60-140	11	
Chlorobenzene	ug/L	ND	20	20	19.8	15.6	99	78	60-140	24	
Chloroethane	ug/L	ND	20	20	22.3	19.5	111	97	60-140	13	
Chloroform	ug/L	ND	20	20	21.3	16.7	106	83	60-140	24	
Chloromethane	ug/L	ND	20	20	18.5	17.8	93	89	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.4	16.2	102	81	60-140	23	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.9	13.6	85	68	60-140	21	
Dibromochloromethane	ug/L	ND	20	20	17.2	13.8	86	69	60-140	22	
Dibromomethane	ug/L	ND	20	20	20.0	15.2	100	76	60-140	27	
Dichlorodifluoromethane	ug/L	ND	20	20	15.3	17.9	77	90	60-140	16	
Diisopropyl ether	ug/L	0.55	20	20	22.1	17.1	108	83	60-140	26	
Ethanol	ug/L	ND	800	800	772	559	97	70	60-140	32	R1
Ethylbenzene	ug/L	ND	20	20	19.7	15.7	99	78	60-140	23	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	14.2	88	71	60-140	21	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.5	16.2	102	81	60-140	23	
m&p-Xylene	ug/L	ND	40	40	39.0	31.5	97	79	60-140	21	
Methyl-tert-butyl ether	ug/L	6.6	20	20	28.2	22.8	108	81	60-140	21	
Methylene Chloride	ug/L	ND	20	20	21.6	16.0	108	80	60-140	30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145843 1145844

Parameter	Units	92190689006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	17.8	14.6	89	73	60-140	20	
n-Propylbenzene	ug/L	ND	20	20	19.8	15.8	99	79	60-140	23	
Naphthalene	ug/L	ND	20	20	18.6	14.2	93	71	60-140	27	
o-Xylene	ug/L	ND	20	20	20.0	15.8	100	79	60-140	24	
sec-Butylbenzene	ug/L	ND	20	20	19.4	15.7	97	78	60-140	21	
Styrene	ug/L	ND	20	20	20.8	16.2	104	81	60-140	25	
tert-Butylbenzene	ug/L	ND	20	20	19.4	15.6	97	78	60-140	22	
Tetrachloroethene	ug/L	ND	20	20	19.9	16.1	99	81	60-140	21	
Toluene	ug/L	ND	20	20	19.7	15.8	99	79	60-140	22	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.3	15.6	97	78	60-140	21	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.9	13.6	85	68	60-140	21	
Trichloroethene	ug/L	ND	20	20	19.3	15.3	96	77	60-140	23	
Trichlorofluoromethane	ug/L	ND	20	20	21.3	18.2	106	91	60-140	15	
Vinyl chloride	ug/L	ND	20	20	20.1	18.6	101	93	60-140	8	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						100	100	70-130		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: MSV/25862 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1142847 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,1-Dichloroethene	ug/L	ND	1.0	02/22/14 00:19	
1,1-Dichloropropene	ug/L	ND	1.0	02/22/14 00:19	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/14 00:19	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/22/14 00:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/14 00:19	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/14 00:19	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/14 00:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/14 00:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
2,2-Dichloropropane	ug/L	ND	1.0	02/22/14 00:19	
2-Butanone (MEK)	ug/L	ND	5.0	02/22/14 00:19	
2-Chlorotoluene	ug/L	ND	1.0	02/22/14 00:19	
2-Hexanone	ug/L	ND	5.0	02/22/14 00:19	
4-Chlorotoluene	ug/L	ND	1.0	02/22/14 00:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/22/14 00:19	
Acetone	ug/L	ND	25.0	02/22/14 00:19	
Benzene	ug/L	ND	1.0	02/22/14 00:19	
Bromobenzene	ug/L	ND	1.0	02/22/14 00:19	
Bromochloromethane	ug/L	ND	1.0	02/22/14 00:19	
Bromodichloromethane	ug/L	ND	1.0	02/22/14 00:19	
Bromoform	ug/L	ND	1.0	02/22/14 00:19	
Bromomethane	ug/L	ND	2.0	02/22/14 00:19	
Carbon tetrachloride	ug/L	ND	1.0	02/22/14 00:19	
Chlorobenzene	ug/L	ND	1.0	02/22/14 00:19	
Chloroethane	ug/L	ND	1.0	02/22/14 00:19	
Chloroform	ug/L	ND	1.0	02/22/14 00:19	
Chloromethane	ug/L	ND	1.0	02/22/14 00:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/14 00:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/14 00:19	
Dibromochloromethane	ug/L	ND	1.0	02/22/14 00:19	
Dibromomethane	ug/L	ND	1.0	02/22/14 00:19	
Dichlorodifluoromethane	ug/L	ND	1.0	02/22/14 00:19	
Diisopropyl ether	ug/L	ND	1.0	02/22/14 00:19	
Ethylbenzene	ug/L	ND	1.0	02/22/14 00:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

METHOD BLANK: 1142847 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/22/14 00:19	
m&p-Xylene	ug/L	ND	2.0	02/22/14 00:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/22/14 00:19	
Methylene Chloride	ug/L	ND	2.0	02/22/14 00:19	
Naphthalene	ug/L	ND	1.0	02/22/14 00:19	
o-Xylene	ug/L	ND	1.0	02/22/14 00:19	
p-Isopropyltoluene	ug/L	ND	1.0	02/22/14 00:19	
Styrene	ug/L	ND	1.0	02/22/14 00:19	
Tetrachloroethene	ug/L	ND	1.0	02/22/14 00:19	
Toluene	ug/L	ND	1.0	02/22/14 00:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/14 00:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/14 00:19	
Trichloroethene	ug/L	ND	1.0	02/22/14 00:19	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/14 00:19	
Vinyl acetate	ug/L	ND	2.0	02/22/14 00:19	
Vinyl chloride	ug/L	ND	1.0	02/22/14 00:19	
Xylene (Total)	ug/L	ND	2.0	02/22/14 00:19	
1,2-Dichloroethane-d4 (S)	%	96	70-130	02/22/14 00:19	
4-Bromofluorobenzene (S)	%	98	70-130	02/22/14 00:19	
Toluene-d8 (S)	%	97	70-130	02/22/14 00:19	

LABORATORY CONTROL SAMPLE: 1142848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	43.0	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	42.1	84	70-130	
1,1-Dichloroethene	ug/L	50	40.6	81	70-132	
1,1-Dichloropropene	ug/L	50	43.0	86	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.5	93	70-135	
1,2,3-Trichloropropane	ug/L	50	49.3	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dichloroethane	ug/L	50	43.2	86	70-130	
1,2-Dichloropropane	ug/L	50	46.5	93	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,3-Dichloropropane	ug/L	50	50.5	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
2,2-Dichloropropane	ug/L	50	39.4	79	58-145	
2-Butanone (MEK)	ug/L	100	87.8	88	70-145	
2-Chlorotoluene	ug/L	50	49.7	99	70-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1142848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.5	97	70-144	
4-Chlorotoluene	ug/L	50	51.1	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.2	94	70-140	
Acetone	ug/L	100	86.4	86	50-175	
Benzene	ug/L	50	47.6	95	70-130	
Bromobenzene	ug/L	50	49.8	100	70-130	
Bromochloromethane	ug/L	50	43.3	87	70-130	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	49.8	100	70-130	
Bromomethane	ug/L	50	43.6	87	54-130	
Carbon tetrachloride	ug/L	50	48.1	96	70-132	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	39.9	80	64-134	
Chloroform	ug/L	50	41.9	84	70-130	
Chloromethane	ug/L	50	44.1	88	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.1	84	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.0	90	70-130	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dibromomethane	ug/L	50	46.6	93	70-131	
Dichlorodifluoromethane	ug/L	50	46.0	92	56-130	
Diisopropyl ether	ug/L	50	43.4	87	70-130	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.4	93	70-130	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	44.4	89	70-130	
Methylene Chloride	ug/L	50	50.2	100	63-130	
Naphthalene	ug/L	50	48.2	96	70-138	
o-Xylene	ug/L	50	49.4	99	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	46.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.9	82	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-132	
Trichloroethene	ug/L	50	46.1	92	70-130	
Trichlorofluoromethane	ug/L	50	43.7	87	62-133	
Vinyl acetate	ug/L	100	84.4	84	66-157	
Vinyl chloride	ug/L	50	44.1	88	69-130	
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			97	70-130	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143591 1143592

Parameter	Units	92190582001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	45.5	44.9	91	90	70-166	1	
Benzene	ug/L	ND	50	50	50.3	50.6	101	101	70-148	1	
Chlorobenzene	ug/L	ND	50	50	51.5	52.1	103	104	70-146	1	
Toluene	ug/L	ND	50	50	48.1	48.5	96	97	70-155	1	
Trichloroethene	ug/L	ND	50	50	52.8	52.7	106	105	69-151	0	
1,2-Dichloroethane-d4 (S)	%						100	101	70-130		
4-Bromofluorobenzene (S)	%						97	96	70-130		
Toluene-d8 (S)	%						96	96	70-130		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: MSV/25855 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1142403 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,1-Dichloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,1-Dichloroethene	ug/kg	ND	5.0	02/21/14 11:34	
1,1-Dichloropropene	ug/kg	ND	5.0	02/21/14 11:34	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,2,3-Trichloropropane	ug/kg	ND	5.0	02/21/14 11:34	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	02/21/14 11:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/21/14 11:34	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,2-Dichloroethane	ug/kg	ND	5.0	02/21/14 11:34	
1,2-Dichloropropane	ug/kg	ND	5.0	02/21/14 11:34	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
1,3-Dichloropropane	ug/kg	ND	5.0	02/21/14 11:34	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
2,2-Dichloropropane	ug/kg	ND	5.0	02/21/14 11:34	
2-Butanone (MEK)	ug/kg	ND	101	02/21/14 11:34	
2-Chlorotoluene	ug/kg	ND	5.0	02/21/14 11:34	
2-Hexanone	ug/kg	ND	50.4	02/21/14 11:34	
4-Chlorotoluene	ug/kg	ND	5.0	02/21/14 11:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.4	02/21/14 11:34	
Acetone	ug/kg	ND	101	02/21/14 11:34	
Benzene	ug/kg	ND	5.0	02/21/14 11:34	
Bromobenzene	ug/kg	ND	5.0	02/21/14 11:34	
Bromochloromethane	ug/kg	ND	5.0	02/21/14 11:34	
Bromodichloromethane	ug/kg	ND	5.0	02/21/14 11:34	
Bromoform	ug/kg	ND	5.0	02/21/14 11:34	
Bromomethane	ug/kg	ND	10.1	02/21/14 11:34	
Carbon tetrachloride	ug/kg	ND	5.0	02/21/14 11:34	
Chlorobenzene	ug/kg	ND	5.0	02/21/14 11:34	
Chloroethane	ug/kg	ND	10.1	02/21/14 11:34	
Chloroform	ug/kg	ND	5.0	02/21/14 11:34	
Chloromethane	ug/kg	ND	10.1	02/21/14 11:34	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/21/14 11:34	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/21/14 11:34	
Dibromochloromethane	ug/kg	ND	5.0	02/21/14 11:34	
Dibromomethane	ug/kg	ND	5.0	02/21/14 11:34	
Dichlorodifluoromethane	ug/kg	ND	10.1	02/21/14 11:34	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

METHOD BLANK: 1142403 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	02/21/14 11:34	
Ethylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	02/21/14 11:34	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/21/14 11:34	
m&p-Xylene	ug/kg	ND	10.1	02/21/14 11:34	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/21/14 11:34	
Methylene Chloride	ug/kg	ND	20.2	02/21/14 11:34	
n-Butylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
n-Propylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
Naphthalene	ug/kg	ND	5.0	02/21/14 11:34	
o-Xylene	ug/kg	ND	5.0	02/21/14 11:34	
p-Isopropyltoluene	ug/kg	ND	5.0	02/21/14 11:34	
sec-Butylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
Styrene	ug/kg	ND	5.0	02/21/14 11:34	
tert-Butylbenzene	ug/kg	ND	5.0	02/21/14 11:34	
Tetrachloroethene	ug/kg	ND	5.0	02/21/14 11:34	
Toluene	ug/kg	ND	5.0	02/21/14 11:34	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/21/14 11:34	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/21/14 11:34	
Trichloroethene	ug/kg	ND	5.0	02/21/14 11:34	
Trichlorofluoromethane	ug/kg	ND	5.0	02/21/14 11:34	
Vinyl acetate	ug/kg	ND	50.4	02/21/14 11:34	
Vinyl chloride	ug/kg	ND	10.1	02/21/14 11:34	
Xylene (Total)	ug/kg	ND	10.1	02/21/14 11:34	
1,2-Dichloroethane-d4 (S)	%	113	70-132	02/21/14 11:34	
4-Bromofluorobenzene (S)	%	92	70-130	02/21/14 11:34	
Toluene-d8 (S)	%	98	70-130	02/21/14 11:34	

LABORATORY CONTROL SAMPLE: 1142404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	47.4	44.8	94	70-131	
1,1,1-Trichloroethane	ug/kg	47.4	51.2	108	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	47.4	47.6	100	70-130	
1,1,2-Trichloroethane	ug/kg	47.4	44.9	95	70-132	
1,1-Dichloroethane	ug/kg	47.4	49.3	104	70-143	
1,1-Dichloroethene	ug/kg	47.4	49.2	104	70-137	
1,1-Dichloropropene	ug/kg	47.4	54.0	114	70-135	
1,2,3-Trichlorobenzene	ug/kg	47.4	50.5	106	69-153	
1,2,3-Trichloropropane	ug/kg	47.4	45.4	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	47.4	51.0	108	55-171	
1,2,4-Trimethylbenzene	ug/kg	47.4	51.9	109	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	47.4	45.6	96	68-141	
1,2-Dibromoethane (EDB)	ug/kg	47.4	48.1	101	70-130	
1,2-Dichlorobenzene	ug/kg	47.4	46.4	98	70-140	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1142404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	47.4	45.9	97	70-137	
1,2-Dichloropropane	ug/kg	47.4	45.5	96	70-133	
1,3,5-Trimethylbenzene	ug/kg	47.4	50.0	105	70-143	
1,3-Dichlorobenzene	ug/kg	47.4	45.4	96	70-144	
1,3-Dichloropropane	ug/kg	47.4	46.5	98	70-132	
1,4-Dichlorobenzene	ug/kg	47.4	46.5	98	70-142	
2,2-Dichloropropane	ug/kg	47.4	52.1	110	68-152	
2-Butanone (MEK)	ug/kg	94.9	114	120	70-149	
2-Chlorotoluene	ug/kg	47.4	48.2	102	70-141	
2-Hexanone	ug/kg	94.9	94.7	100	70-149	
4-Chlorotoluene	ug/kg	47.4	48.8	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	94.9	93.5	99	70-153	
Acetone	ug/kg	94.9	113	119	70-157	
Benzene	ug/kg	47.4	48.2	102	70-130	
Bromobenzene	ug/kg	47.4	47.1	99	70-141	
Bromochloromethane	ug/kg	47.4	49.1	104	70-149	
Bromodichloromethane	ug/kg	47.4	43.4	92	70-130	
Bromoform	ug/kg	47.4	45.9	97	70-131	
Bromomethane	ug/kg	47.4	66.1	139	64-136	L3
Carbon tetrachloride	ug/kg	47.4	42.3	89	70-154	
Chlorobenzene	ug/kg	47.4	44.6	94	70-135	
Chloroethane	ug/kg	47.4	47.9	101	68-151	
Chloroform	ug/kg	47.4	48.0	101	70-130	
Chloromethane	ug/kg	47.4	50.2	106	70-132	
cis-1,2-Dichloroethene	ug/kg	47.4	49.1	104	70-140	
cis-1,3-Dichloropropene	ug/kg	47.4	45.9	97	70-137	
Dibromochloromethane	ug/kg	47.4	44.4	94	70-130	
Dibromomethane	ug/kg	47.4	43.5	92	70-136	
Dichlorodifluoromethane	ug/kg	47.4	55.5	117	36-148	
Diisopropyl ether	ug/kg	47.4	50.3	106	70-139	
Ethylbenzene	ug/kg	47.4	45.9	97	70-137	
Hexachloro-1,3-butadiene	ug/kg	47.4	41.2	87	70-145	
Isopropylbenzene (Cumene)	ug/kg	47.4	48.3	102	70-141	
m&p-Xylene	ug/kg	94.9	93.0	98	70-140	
Methyl-tert-butyl ether	ug/kg	47.4	51.0	107	45-150	
Methylene Chloride	ug/kg	47.4	71.0	150	70-133	L3
n-Butylbenzene	ug/kg	47.4	54.1	114	65-155	
n-Propylbenzene	ug/kg	47.4	51.1	108	70-148	
Naphthalene	ug/kg	47.4	63.7	134	70-148	
o-Xylene	ug/kg	47.4	46.2	97	70-141	
p-Isopropyltoluene	ug/kg	47.4	51.6	109	70-148	
sec-Butylbenzene	ug/kg	47.4	51.0	108	70-145	
Styrene	ug/kg	47.4	47.5	100	70-138	
tert-Butylbenzene	ug/kg	47.4	45.1	95	70-143	
Tetrachloroethene	ug/kg	47.4	43.9	93	70-140	
Toluene	ug/kg	47.4	44.6	94	70-130	
trans-1,2-Dichloroethene	ug/kg	47.4	49.2	104	70-136	
trans-1,3-Dichloropropene	ug/kg	47.4	44.8	94	70-138	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1142404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	47.4	43.5	92	70-132	
Trichlorofluoromethane	ug/kg	47.4	53.1	112	69-134	
Vinyl acetate	ug/kg	94.9	126	133	24-161	
Vinyl chloride	ug/kg	47.4	55.2	116	55-140	
Xylene (Total)	ug/kg	142	139	98	70-141	
1,2-Dichloroethane-d4 (S)	%			111	70-132	
4-Bromofluorobenzene (S)	%			87	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1143264

Parameter	Units	92190486003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	<4.5	44.4	55.8	126	49-180	
Benzene	ug/kg	<4.5	44.4	55.0	124	50-166	
Chlorobenzene	ug/kg	<4.5	44.4	49.5	112	43-169	
Toluene	ug/kg	<4.5	44.4	55.8	126	52-163	
Trichloroethene	ug/kg	<4.5	44.4	58.2	131	49-167	
1,2-Dichloroethane-d4 (S)	%				91	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				108	70-130	

SAMPLE DUPLICATE: 1143263

Parameter	Units	92190486001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<4.1	ND		
1,1,1-Trichloroethane	ug/kg	<4.1	ND		
1,1,2,2-Tetrachloroethane	ug/kg	<4.1	ND		
1,1,2-Trichloroethane	ug/kg	<4.1	ND		
1,1-Dichloroethane	ug/kg	<4.1	ND		
1,1-Dichloroethene	ug/kg	<4.1	ND		
1,1-Dichloropropene	ug/kg	<4.1	ND		
1,2,3-Trichlorobenzene	ug/kg	<4.1	ND		
1,2,3-Trichloropropane	ug/kg	<4.1	ND		
1,2,4-Trichlorobenzene	ug/kg	<4.1	ND		
1,2,4-Trimethylbenzene	ug/kg	<4.1	ND		
1,2-Dibromo-3-chloropropane	ug/kg	<4.1	ND		
1,2-Dibromoethane (EDB)	ug/kg	<4.1	ND		
1,2-Dichlorobenzene	ug/kg	<4.1	ND		
1,2-Dichloroethane	ug/kg	<4.1	ND		
1,2-Dichloropropane	ug/kg	<4.1	ND		
1,3,5-Trimethylbenzene	ug/kg	<4.1	ND		
1,3-Dichlorobenzene	ug/kg	<4.1	ND		
1,3-Dichloropropane	ug/kg	<4.1	ND		
1,4-Dichlorobenzene	ug/kg	<4.1	ND		
2,2-Dichloropropane	ug/kg	<4.1	ND		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

SAMPLE DUPLICATE: 1143263

Parameter	Units	92190486001 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	<82.9	ND		
2-Chlorotoluene	ug/kg	<4.1	ND		
2-Hexanone	ug/kg	<41.5	ND		
4-Chlorotoluene	ug/kg	<4.1	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	<41.5	ND		
Acetone	ug/kg	<82.9	27.1J		
Benzene	ug/kg	<4.1	ND		
Bromobenzene	ug/kg	<4.1	ND		
Bromochloromethane	ug/kg	<4.1	ND		
Bromodichloromethane	ug/kg	<4.1	ND		
Bromoform	ug/kg	<4.1	ND		
Bromomethane	ug/kg	<8.3	ND		
Carbon tetrachloride	ug/kg	<4.1	ND		
Chlorobenzene	ug/kg	<4.1	ND		
Chloroethane	ug/kg	<8.3	ND		
Chloroform	ug/kg	<4.1	ND		
Chloromethane	ug/kg	<8.3	ND		
cis-1,2-Dichloroethene	ug/kg	<4.1	ND		
cis-1,3-Dichloropropene	ug/kg	<4.1	ND		
Dibromochloromethane	ug/kg	<4.1	ND		
Dibromomethane	ug/kg	<4.1	ND		
Dichlorodifluoromethane	ug/kg	<8.3	ND		
Diisopropyl ether	ug/kg	<4.1	ND		
Ethylbenzene	ug/kg	<4.1	ND		
Hexachloro-1,3-butadiene	ug/kg	<4.1	ND		
Isopropylbenzene (Cumene)	ug/kg	<4.1	ND		
m&p-Xylene	ug/kg	<8.3	ND		
Methyl-tert-butyl ether	ug/kg	<4.1	ND		
Methylene Chloride	ug/kg	<16.6	2.6J		
n-Butylbenzene	ug/kg	<4.1	ND		
n-Propylbenzene	ug/kg	<4.1	ND		
Naphthalene	ug/kg	<4.1	ND		
o-Xylene	ug/kg	<4.1	ND		
p-Isopropyltoluene	ug/kg	<4.1	ND		
sec-Butylbenzene	ug/kg	<4.1	ND		
Styrene	ug/kg	<4.1	ND		
tert-Butylbenzene	ug/kg	<4.1	ND		
Tetrachloroethene	ug/kg	<4.1	ND		
Toluene	ug/kg	<4.1	ND		
trans-1,2-Dichloroethene	ug/kg	<4.1	ND		
trans-1,3-Dichloropropene	ug/kg	<4.1	ND		
Trichloroethene	ug/kg	<4.1	ND		
Trichlorofluoromethane	ug/kg	<4.1	ND		
Vinyl acetate	ug/kg	<41.5	ND		
Vinyl chloride	ug/kg	<8.3	ND		
Xylene (Total)	ug/kg	<8.3	ND		
1,2-Dichloroethane-d4 (S)	%	117	88	29	
4-Bromofluorobenzene (S)	%	87	92	6	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

SAMPLE DUPLICATE: 1143263

Parameter	Units	92190486001 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	97	111	13	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26010 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1141550 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 07:26	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/28/14 07:26	
2,4-Dichlorophenol	ug/L	ND	5.0	02/28/14 07:26	
2,4-Dimethylphenol	ug/L	ND	10.0	02/28/14 07:26	
2,4-Dinitrophenol	ug/L	ND	50.0	02/28/14 07:26	
2,4-Dinitrotoluene	ug/L	ND	5.0	02/28/14 07:26	
2,6-Dinitrotoluene	ug/L	ND	5.0	02/28/14 07:26	
2-Chloronaphthalene	ug/L	ND	5.0	02/28/14 07:26	
2-Chlorophenol	ug/L	ND	5.0	02/28/14 07:26	
2-Nitrophenol	ug/L	ND	5.0	02/28/14 07:26	
3,3'-Dichlorobenzidine	ug/L	ND	25.0	02/28/14 07:26	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/28/14 07:26	
4-Bromophenylphenyl ether	ug/L	ND	5.0	02/28/14 07:26	
4-Chloro-3-methylphenol	ug/L	ND	5.0	02/28/14 07:26	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	02/28/14 07:26	
4-Nitrophenol	ug/L	ND	50.0	02/28/14 07:26	
Acenaphthene	ug/L	ND	5.0	02/28/14 07:26	
Acenaphthylene	ug/L	ND	5.0	02/28/14 07:26	
Anthracene	ug/L	ND	5.0	02/28/14 07:26	
Benzo(a)anthracene	ug/L	ND	5.0	02/28/14 07:26	
Benzo(a)pyrene	ug/L	ND	5.0	02/28/14 07:26	
Benzo(b)fluoranthene	ug/L	ND	5.0	02/28/14 07:26	
Benzo(g,h,i)perylene	ug/L	ND	5.0	02/28/14 07:26	
Benzo(k)fluoranthene	ug/L	ND	5.0	02/28/14 07:26	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/28/14 07:26	
bis(2-Chloroethyl) ether	ug/L	ND	5.0	02/28/14 07:26	
bis(2-Chloroisopropyl) ether	ug/L	ND	5.0	02/28/14 07:26	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	02/28/14 07:26	
Butylbenzylphthalate	ug/L	ND	5.0	02/28/14 07:26	
Chrysene	ug/L	ND	5.0	02/28/14 07:26	
Di-n-butylphthalate	ug/L	ND	5.0	02/28/14 07:26	
Di-n-octylphthalate	ug/L	ND	5.0	02/28/14 07:26	
Dibenz(a,h)anthracene	ug/L	ND	5.0	02/28/14 07:26	
Diethylphthalate	ug/L	ND	5.0	02/28/14 07:26	
Dimethylphthalate	ug/L	ND	5.0	02/28/14 07:26	
Fluoranthene	ug/L	ND	5.0	02/28/14 07:26	
Fluorene	ug/L	ND	5.0	02/28/14 07:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 07:26	
Hexachlorobenzene	ug/L	ND	5.0	02/28/14 07:26	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/28/14 07:26	
Hexachloroethane	ug/L	ND	5.0	02/28/14 07:26	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	02/28/14 07:26	
Isophorone	ug/L	ND	10.0	02/28/14 07:26	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

METHOD BLANK: 1141550 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	02/28/14 07:26	
N-Nitrosodimethylamine	ug/L	ND	5.0	02/28/14 07:26	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/28/14 07:26	
Naphthalene	ug/L	ND	5.0	02/28/14 07:26	
Nitrobenzene	ug/L	ND	5.0	02/28/14 07:26	
Pentachlorophenol	ug/L	ND	10.0	02/28/14 07:26	
Phenanthrene	ug/L	ND	5.0	02/28/14 07:26	
Phenol	ug/L	ND	5.0	02/28/14 07:26	
Pyrene	ug/L	ND	5.0	02/28/14 07:26	
2,4,6-Tribromophenol (S)	%	88	10-137	02/28/14 07:26	
2-Fluorobiphenyl (S)	%	74	15-120	02/28/14 07:26	
2-Fluorophenol (S)	%	46	10-120	02/28/14 07:26	
Nitrobenzene-d5 (S)	%	73	10-120	02/28/14 07:26	
Phenol-d6 (S)	%	33	10-120	02/28/14 07:26	
Terphenyl-d14 (S)	%	99	11-131	02/28/14 07:26	

LABORATORY CONTROL SAMPLE: 1141551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.0	72	44-142	
2,4,6-Trichlorophenol	ug/L	50	19.6	39	37-144	
2,4-Dichlorophenol	ug/L	50	23.9	48	1-191	
2,4-Dimethylphenol	ug/L	50	31.7	63	32-119	
2,4-Dinitrophenol	ug/L	250	49.5J	20	1-181	
2,4-Dinitrotoluene	ug/L	50	54.3	109	39-139	
2,6-Dinitrotoluene	ug/L	50	51.3	103	50-158	
2-Chloronaphthalene	ug/L	50	34.2	68	60-118	
2-Chlorophenol	ug/L	50	23.6	47	23-134	
2-Nitrophenol	ug/L	50	20.8	42	29-182	
3,3'-Dichlorobenzidine	ug/L	100	107	107	1-262	
4,6-Dinitro-2-methylphenol	ug/L	100	34.2	34	1-181	
4-Bromophenylphenyl ether	ug/L	50	44.3	89	53-127	
4-Chloro-3-methylphenol	ug/L	100	59.7	60	22-147	
4-Chlorophenylphenyl ether	ug/L	50	48.4	97	25-158	
4-Nitrophenol	ug/L	250	48.6J	19	1-132	
Acenaphthene	ug/L	50	40.8	82	47-145	
Acenaphthylene	ug/L	50	42.0	84	33-145	
Anthracene	ug/L	50	46.2	92	1-166	
Benzo(a)anthracene	ug/L	50	45.7	91	33-143	
Benzo(a)pyrene	ug/L	50	49.2	98	17-163	
Benzo(b)fluoranthene	ug/L	50	44.9	90	24-159	
Benzo(g,h,i)perylene	ug/L	50	45.0	90	1-219	
Benzo(k)fluoranthene	ug/L	50	41.4	83	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	41.6	83	33-184	
bis(2-Chloroethyl) ether	ug/L	50	44.4	89	12-158	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1141551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	50	44.1	88	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.1	94	8-158	
Butylbenzylphthalate	ug/L	50	45.3	91	1-152	
Chrysene	ug/L	50	47.2	94	17-168	
Di-n-butylphthalate	ug/L	50	45.1	90	1-118	
Di-n-octylphthalate	ug/L	50	54.2	108	4-146	
Dibenz(a,h)anthracene	ug/L	50	49.3	99	1-227	
Diethylphthalate	ug/L	50	45.5	91	1-114	
Dimethylphthalate	ug/L	50	41.6	83	1-112	
Fluoranthene	ug/L	50	50.5	101	26-137	
Fluorene	ug/L	50	47.8	96	59-121	
Hexachloro-1,3-butadiene	ug/L	50	32.1	64	24-116	
Hexachlorobenzene	ug/L	50	40.0	80	1-152	
Hexachlorocyclopentadiene	ug/L	50	25.9	52	25-150	
Hexachloroethane	ug/L	50	33.9	68	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	48.5	97	1-171	
Isophorone	ug/L	50	48.3	97	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	51.2	102	1-230	
N-Nitrosodimethylamine	ug/L	50	18.9	38	25-150	
N-Nitrosodiphenylamine	ug/L	50	34.8	70	25-150	
Naphthalene	ug/L	50	41.5	83	21-133	
Nitrobenzene	ug/L	50	39.1	78	35-180	
Pentachlorophenol	ug/L	100	39.6	40	14-176	
Phenanthrene	ug/L	50	44.9	90	54-120	
Phenol	ug/L	50	15.0	30	5-112	
Pyrene	ug/L	50	47.2	94	52-115	
2,4,6-Tribromophenol (S)	%			58	10-137	
2-Fluorobiphenyl (S)	%			75	15-120	
2-Fluorophenol (S)	%			25	10-120	
Nitrobenzene-d5 (S)	%			73	10-120	
Phenol-d6 (S)	%			22	10-120	
Terphenyl-d14 (S)	%			94	11-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141552 1141553

Parameter	Units	92190065001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	78.9	64.5	79	65	44-142	20	
2,4,6-Trichlorophenol	ug/L	ND	100	100	87.6	77.0	88	77	37-144	13	
2,4-Dichlorophenol	ug/L	ND	100	100	106	84.4	106	84	1-191	23	
2,4-Dimethylphenol	ug/L	ND	100	100	73.8	48.8	74	49	32-119	41	R1
2,4-Dinitrophenol	ug/L	ND	500	500	263	286	53	57	1-181	9	
2,4-Dinitrotoluene	ug/L	ND	100	100	105	95.2	105	95	39-139	10	
2,6-Dinitrotoluene	ug/L	ND	100	100	105	97.3	105	97	50-158	7	
2-Chloronaphthalene	ug/L	ND	100	100	76.9	64.0	77	64	60-118	18	
2-Chlorophenol	ug/L	ND	100	100	114	78.3	114	78	23-134	37	R1
2-Nitrophenol	ug/L	ND	100	100	94.9	74.9	95	75	29-182	24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141552 1141553

Parameter	Units	92190065001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3,3'-Dichlorobenzidine	ug/L	ND	200	200	115	124	58	62	1-262	7	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	156	152	78	76	1-181	3	
4-Bromophenylphenyl ether	ug/L	ND	100	100	95.3	87.4	95	87	53-127	9	
4-Chloro-3-methylphenol	ug/L	ND	200	200	218	191	109	96	22-147	13	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	98.1	89.0	98	89	25-158	10	
4-Nitrophenol	ug/L	ND	500	500	272	225	54	45	1-132	19	
Acenaphthene	ug/L	ND	100	100	88.4	75.5	88	76	47-145	16	
Acenaphthylene	ug/L	ND	100	100	91.1	77.9	91	78	33-145	16	
Anthracene	ug/L	ND	100	100	93.0	81.8	93	82	1-166	13	
Benzo(a)anthracene	ug/L	ND	100	100	90.0	83.6	90	84	33-143	7	
Benzo(a)pyrene	ug/L	ND	100	100	96.2	87.6	96	88	17-163	9	
Benzo(b)fluoranthene	ug/L	ND	100	100	94.0	86.8	94	87	24-159	8	
Benzo(g,h,i)perylene	ug/L	ND	100	100	89.4	78.4	89	78	1-219	13	
Benzo(k)fluoranthene	ug/L	ND	100	100	84.7	79.4	85	79	11-162	6	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	92.3	74.8	92	75	33-184	21	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	97.6	78.5	98	78	12-158	22	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	97.2	70.9	97	71	36-166	31	R1
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	90.9	86.0	91	86	8-158	5	
Butylbenzylphthalate	ug/L	ND	100	100	89.1	86.1	89	86	1-152	3	
Chrysene	ug/L	ND	100	100	93.5	88.6	94	89	17-168	5	
Di-n-butylphthalate	ug/L	ND	100	100	87.5	79.7	88	80	1-118	9	
Di-n-octylphthalate	ug/L	ND	100	100	101	91.7	101	92	4-146	10	
Dibenz(a,h)anthracene	ug/L	ND	100	100	96.1	85.8	96	86	1-227	11	
Diethylphthalate	ug/L	ND	100	100	86.6	80.4	87	80	1-114	7	
Dimethylphthalate	ug/L	ND	100	100	84.2	79.0	84	79	1-112	6	
Fluoranthene	ug/L	ND	100	100	97.9	82.5	98	82	26-137	17	
Fluorene	ug/L	ND	100	100	95.9	86.7	96	87	59-121	10	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	67.7	57.7	68	58	24-116	16	
Hexachlorobenzene	ug/L	ND	100	100	83.7	76.0	84	76	1-152	10	
Hexachlorocyclopentadiene	ug/L	ND	100	100	67.6	53.4	68	53	25-150	24	
Hexachloroethane	ug/L	ND	100	100	69.9	54.7	70	55	40-113	24	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	95.7	84.4	96	84	1-171	13	
Isophorone	ug/L	ND	100	100	104	84.1	104	84	21-196	21	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	124	74.2	124	74	1-230	50	R1
N-Nitrosodimethylamine	ug/L	ND	100	100	55.1	44.2	55	44	25-150	22	
N-Nitrosodiphenylamine	ug/L	ND	100	100	76.3	70.5	76	70	25-150	8	
Naphthalene	ug/L	ND	100	100	91.5	73.2	92	73	21-133	22	
Nitrobenzene	ug/L	ND	100	100	96.7	75.6	97	76	35-180	24	
Pentachlorophenol	ug/L	ND	200	200	168	139	84	70	14-176	19	
Phenanthrene	ug/L	ND	100	100	92.6	82.6	93	83	54-120	11	
Phenol	ug/L	ND	100	100	91.8	53.4	92	53	5-112	53	R1
Pyrene	ug/L	ND	100	100	97.9	93.6	98	94	52-115	4	
2,4,6-Tribromophenol (S)	%						107	95	10-137		
2-Fluorobiphenyl (S)	%						84	74	15-120		
2-Fluorophenol (S)	%						71	55	10-120		
Nitrobenzene-d5 (S)	%						82	68	10-120		
Phenol-d6 (S)	%						84	50	10-120		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141552 1141553

Parameter	Units	92190065001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Terphenyl-d14 (S)	%						98	99	11-131		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26002 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92190355001, 92190355002

METHOD BLANK: 1141205 Matrix: Solid
Associated Lab Samples: 92190355001, 92190355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	02/20/14 14:23	
n-Pentacosane (S)	%	70	41-119	02/20/14 14:23	

LABORATORY CONTROL SAMPLE: 1141206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	47.9	72	49-113	
n-Pentacosane (S)	%			79	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141207 1141208

Parameter	Units	92189902002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	101	79.5	79.5	80.5	185	-25	106	10-146	79	M0,R1
n-Pentacosane (S)	%						66	94	41-119		R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26043 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1142830 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	02/22/14 14:47	
n-Pentacosane (S)	%	78	41-119	02/22/14 14:47	

LABORATORY CONTROL SAMPLE & LCSD: 1142831 1142833

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Components	mg/kg	66.7	51.6	52.6	77	79	49-113	2	30	
n-Pentacosane (S)	%				88	73	41-119			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143312 1143313

Parameter	Units	92190639002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	90.5	73.9	73.9	153	125	85	47	10-146	20	
n-Pentacosane (S)	%						72	61	41-119		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26015
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1141738
Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	02/25/14 15:56	
1,2-Dichlorobenzene	ug/kg	ND	330	02/25/14 15:56	
1,3-Dichlorobenzene	ug/kg	ND	330	02/25/14 15:56	
1,4-Dichlorobenzene	ug/kg	ND	330	02/25/14 15:56	
1-Methylnaphthalene	ug/kg	ND	330	02/25/14 15:56	
2,4,5-Trichlorophenol	ug/kg	ND	330	02/25/14 15:56	
2,4,6-Trichlorophenol	ug/kg	ND	330	02/25/14 15:56	
2,4-Dichlorophenol	ug/kg	ND	330	02/25/14 15:56	
2,4-Dimethylphenol	ug/kg	ND	330	02/25/14 15:56	
2,4-Dinitrophenol	ug/kg	ND	1650	02/25/14 15:56	
2,4-Dinitrotoluene	ug/kg	ND	330	02/25/14 15:56	
2,6-Dinitrotoluene	ug/kg	ND	330	02/25/14 15:56	
2-Chloronaphthalene	ug/kg	ND	330	02/25/14 15:56	
2-Chlorophenol	ug/kg	ND	330	02/25/14 15:56	
2-Methylnaphthalene	ug/kg	ND	330	02/25/14 15:56	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	02/25/14 15:56	
2-Nitroaniline	ug/kg	ND	1650	02/25/14 15:56	
2-Nitrophenol	ug/kg	ND	330	02/25/14 15:56	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	02/25/14 15:56	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	02/25/14 15:56	
3-Nitroaniline	ug/kg	ND	1650	02/25/14 15:56	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	02/25/14 15:56	
4-Bromophenylphenyl ether	ug/kg	ND	330	02/25/14 15:56	
4-Chloro-3-methylphenol	ug/kg	ND	660	02/25/14 15:56	
4-Chloroaniline	ug/kg	ND	1650	02/25/14 15:56	
4-Chlorophenylphenyl ether	ug/kg	ND	330	02/25/14 15:56	
4-Nitroaniline	ug/kg	ND	660	02/25/14 15:56	
4-Nitrophenol	ug/kg	ND	1650	02/25/14 15:56	
Acenaphthene	ug/kg	ND	330	02/25/14 15:56	
Acenaphthylene	ug/kg	ND	330	02/25/14 15:56	
Aniline	ug/kg	ND	330	02/25/14 15:56	
Anthracene	ug/kg	ND	330	02/25/14 15:56	
Benzo(a)anthracene	ug/kg	ND	330	02/25/14 15:56	
Benzo(a)pyrene	ug/kg	ND	330	02/25/14 15:56	
Benzo(b)fluoranthene	ug/kg	ND	330	02/25/14 15:56	
Benzo(g,h,i)perylene	ug/kg	ND	330	02/25/14 15:56	
Benzo(k)fluoranthene	ug/kg	ND	330	02/25/14 15:56	
Benzoic Acid	ug/kg	ND	1650	02/25/14 15:56	
Benzyl alcohol	ug/kg	ND	660	02/25/14 15:56	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	02/25/14 15:56	
bis(2-Chloroethyl) ether	ug/kg	ND	330	02/25/14 15:56	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	02/25/14 15:56	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	02/25/14 15:56	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

METHOD BLANK: 1141738 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	02/25/14 15:56	
Chrysene	ug/kg	ND	330	02/25/14 15:56	
Di-n-butylphthalate	ug/kg	ND	330	02/25/14 15:56	
Di-n-octylphthalate	ug/kg	ND	330	02/25/14 15:56	
Dibenz(a,h)anthracene	ug/kg	ND	330	02/25/14 15:56	
Dibenzofuran	ug/kg	ND	330	02/25/14 15:56	
Diethylphthalate	ug/kg	ND	330	02/25/14 15:56	
Dimethylphthalate	ug/kg	ND	330	02/25/14 15:56	
Fluoranthene	ug/kg	ND	330	02/25/14 15:56	
Fluorene	ug/kg	ND	330	02/25/14 15:56	
Hexachloro-1,3-butadiene	ug/kg	ND	330	02/25/14 15:56	
Hexachlorobenzene	ug/kg	ND	330	02/25/14 15:56	
Hexachlorocyclopentadiene	ug/kg	ND	330	02/25/14 15:56	
Hexachloroethane	ug/kg	ND	330	02/25/14 15:56	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	02/25/14 15:56	
Isophorone	ug/kg	ND	330	02/25/14 15:56	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	02/25/14 15:56	
N-Nitrosodimethylamine	ug/kg	ND	330	02/25/14 15:56	
N-Nitrosodiphenylamine	ug/kg	ND	330	02/25/14 15:56	
Naphthalene	ug/kg	ND	330	02/25/14 15:56	
Nitrobenzene	ug/kg	ND	330	02/25/14 15:56	
Pentachlorophenol	ug/kg	ND	1650	02/25/14 15:56	
Phenanthrene	ug/kg	ND	330	02/25/14 15:56	
Phenol	ug/kg	ND	330	02/25/14 15:56	
Pyrene	ug/kg	ND	330	02/25/14 15:56	
2,4,6-Tribromophenol (S)	%	85	27-110	02/25/14 15:56	
2-Fluorobiphenyl (S)	%	80	30-110	02/25/14 15:56	
2-Fluorophenol (S)	%	80	13-110	02/25/14 15:56	
Nitrobenzene-d5 (S)	%	73	23-110	02/25/14 15:56	
Phenol-d6 (S)	%	78	22-110	02/25/14 15:56	
Terphenyl-d14 (S)	%	105	28-110	02/25/14 15:56	

LABORATORY CONTROL SAMPLE: 1141739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1220	73	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1210	73	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1190	71	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1210	73	35-110	
1-Methylnaphthalene	ug/kg	1670	1380	83	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1400	84	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1290	77	45-111	
2,4-Dichlorophenol	ug/kg	1670	1420	85	51-116	
2,4-Dimethylphenol	ug/kg	1670	1510	90	42-103	
2,4-Dinitrophenol	ug/kg	8330	5120	61	28-103	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1141739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1550	93	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1490	89	48-112	
2-Chloronaphthalene	ug/kg	1670	1100	66	44-105	
2-Chlorophenol	ug/kg	1670	1400	84	36-110	
2-Methylnaphthalene	ug/kg	1670	1430	86	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1410	85	39-101	
2-Nitroaniline	ug/kg	3330	2810	84	44-111	
2-Nitrophenol	ug/kg	1670	1380	83	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1420	85	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2820	84	10-150	
3-Nitroaniline	ug/kg	3330	2840	85	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2480	74	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1380	83	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2950	88	43-127	
4-Chloroaniline	ug/kg	3330	2750	82	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1400	84	44-115	
4-Nitroaniline	ug/kg	3330	2980	89	37-111	
4-Nitrophenol	ug/kg	8330	6710	80	21-152	
Acenaphthene	ug/kg	1670	1250	75	38-117	
Acenaphthylene	ug/kg	1670	1320	79	46-107	
Aniline	ug/kg	1670	1230	74	29-110	
Anthracene	ug/kg	1670	1430	86	50-110	
Benzo(a)anthracene	ug/kg	1670	1380	83	47-116	
Benzo(a)pyrene	ug/kg	1670	1470	88	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1420	85	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1280	77	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1330	80	45-117	
Benzoic Acid	ug/kg	8330	5600	67	16-110	
Benzyl alcohol	ug/kg	3330	2470	74	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1280	77	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1320	79	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1180	71	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1380	83	35-116	
Butylbenzylphthalate	ug/kg	1670	1420	85	38-110	
Chrysene	ug/kg	1670	1430	86	49-110	
Di-n-butylphthalate	ug/kg	1670	1310	79	43-109	
Di-n-octylphthalate	ug/kg	1670	1460	87	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1390	83	43-116	
Dibenzofuran	ug/kg	1670	1190	71	45-106	
Diethylphthalate	ug/kg	1670	1270	76	41-114	
Dimethylphthalate	ug/kg	1670	1210	72	43-110	
Fluoranthene	ug/kg	1670	1450	87	50-114	
Fluorene	ug/kg	1670	1390	83	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1220	73	28-111	
Hexachlorobenzene	ug/kg	1670	1240	74	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	995	60	18-119	
Hexachloroethane	ug/kg	1670	1160	69	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1380	83	42-115	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

LABORATORY CONTROL SAMPLE: 1141739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1380	83	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1080	65	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1100	66	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1150	69	48-113	
Naphthalene	ug/kg	1670	1330	80	41-110	
Nitrobenzene	ug/kg	1670	1320	79	38-110	
Pentachlorophenol	ug/kg	3330	2490	75	32-128	
Phenanthrene	ug/kg	1670	1380	83	50-110	
Phenol	ug/kg	1670	1460	88	28-106	
Pyrene	ug/kg	1670	1680	101	45-114	
2,4,6-Tribromophenol (S)	%			95	27-110	
2-Fluorobiphenyl (S)	%			77	30-110	
2-Fluorophenol (S)	%			87	13-110	
Nitrobenzene-d5 (S)	%			77	23-110	
Phenol-d6 (S)	%			87	22-110	
Terphenyl-d14 (S)	%			103	28-110	

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26076 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92190355006, 92190355007

METHOD BLANK: 1143989 Matrix: Solid
Associated Lab Samples: 92190355006, 92190355007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	02/25/14 18:45	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	02/25/14 18:45	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	02/25/14 18:45	N2
2-Bromonaphthalene (S)	%	86	40-140	02/25/14 18:45	
2-Fluorobiphenyl (S)	%	79	40-140	02/25/14 18:45	
Nonatriacontane (S)	%	68	40-140	02/25/14 18:45	
o-Terphenyl (S)	%	86	40-140	02/25/14 18:45	

LABORATORY CONTROL SAMPLE & LCSD: 1143990 1143991

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	78	81	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.3	11.1	12.7	83	95	40-140	13	50	N2
Aromatic (C11-C22)	mg/kg	28.3	15.5	22.0	55	78	40-140	34	50	N2
2-Bromonaphthalene (S)	%				52	67	40-140			
2-Fluorobiphenyl (S)	%				47	62	40-140			
Nonatriacontane (S)	%				66	85	40-140			
o-Terphenyl (S)	%				47	68	40-140			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: OEXT/26031 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

METHOD BLANK: 1142333 Matrix: Water
Associated Lab Samples: 92190355003, 92190355004, 92190355005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	ug/L	ND	100	02/24/14 17:37	N2
Aliphatic (C19-C36)	ug/L	ND	100	02/24/14 17:37	N2
Aromatic (C11-C22)	ug/L	ND	100	02/24/14 17:37	N2
2-Bromonaphthalene (S)	%	103	40-140	02/24/14 17:37	
2-Fluorobiphenyl (S)	%	84	40-140	02/24/14 17:37	
Nonatriacontane (S)	%	60	40-140	02/24/14 17:37	
o-Terphenyl (S)	%	77	40-140	02/24/14 17:37	

LABORATORY CONTROL SAMPLE & LCSD: 1142334 1142335

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	ug/L	300	150	148	50	49	40-140	2	50	N2
Aliphatic (C19-C36)	ug/L	400	226	225	56	56	40-140	0	50	N2
Aromatic (C11-C22)	ug/L	850	583	811	69	95	40-140	33	50	N2
2-Bromonaphthalene (S)	%				83	112	40-140			
2-Fluorobiphenyl (S)	%				71	103	40-140			
Nonatriacontane (S)	%				64	66	40-140			
o-Terphenyl (S)	%				75	95	40-140			

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QUALITY CONTROL DATA

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

QC Batch: PMST/6289 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92190355001, 92190355002, 92190355006, 92190355007

SAMPLE DUPLICATE: 1146587

Parameter	Units	92190355001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.5	20.1	3	

SAMPLE DUPLICATE: 1146588

Parameter	Units	92191196023 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.6	16.8	1	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N	Tentatively identified compound (TIC) based on mass spectral library search
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92190355001	**B-13-01 6FT**	EPA 3546	OEXT/26002	EPA 8015 Modified	GCSV/16718
92190355002	**DUPLICATE -1**	EPA 3546	OEXT/26002	EPA 8015 Modified	GCSV/16718
92190355006	**B-07-02 8'**	EPA 3546	OEXT/26043	EPA 8015 Modified	GCSV/16735
92190355007	**B-07-06 10'**	EPA 3546	OEXT/26043	EPA 8015 Modified	GCSV/16735
92190355003	**B-16/17-01**	EPA 8015 - Alcohol-Glycol	GCSV/12153		
92190355004	**B-18-01**	EPA 8015 - Alcohol-Glycol	GCSV/12153		
92190355005	**DUPLICATE-2**	EPA 8015 - Alcohol-Glycol	GCSV/12153		
92190355006	**B-07-02 8'**	MADEP EPH	OEXT/26076	MADEP EPH	GCSV/16765
92190355007	**B-07-06 10'**	MADEP EPH	OEXT/26076	MADEP EPH	GCSV/16765
92190355003	**B-16/17-01**	MADEP EPH	OEXT/26031	MADEP EPH	GCSV/16758
92190355004	**B-18-01**	MADEP EPH	OEXT/26031	MADEP EPH	GCSV/16758
92190355005	**DUPLICATE-2**	MADEP EPH	OEXT/26031	MADEP EPH	GCSV/16758
92190355001	**B-13-01 6FT**	EPA 5035A/5030B	GCV/7826	EPA 8015 Modified	GCV/7828
92190355002	**DUPLICATE -1**	EPA 5035A/5030B	GCV/7826	EPA 8015 Modified	GCV/7828
92190355006	**B-07-02 8'**	EPA 5035A/5030B	GCV/7833	EPA 8015 Modified	GCV/7834
92190355007	**B-07-06 10'**	EPA 5035A/5030B	GCV/7833	EPA 8015 Modified	GCV/7834
92190355006	**B-07-02 8'**	MADEP VPH	GCV/7860	MADEP VPH	GCV/7865
92190355007	**B-07-06 10'**	MADEP VPH	GCV/7860	MADEP VPH	GCV/7865
92190355003	**B-16/17-01**	MADEP VPH	GCV/7835		
92190355004	**B-18-01**	MADEP VPH	GCV/7835		
92190355005	**DUPLICATE-2**	MADEP VPH	GCV/7835		
92190355006	**B-07-02 8'**	EPA 3050	MPRP/15312	EPA 6010	ICP/13889
92190355007	**B-07-06 10'**	EPA 3050	MPRP/15312	EPA 6010	ICP/13889
92190355003	**B-16/17-01**	EPA 3010	MPRP/15285	EPA 6010	ICP/13867
92190355004	**B-18-01**	EPA 3010	MPRP/15285	EPA 6010	ICP/13867
92190355005	**DUPLICATE-2**	EPA 3010	MPRP/15285	EPA 6010	ICP/13867
92190355003	**B-16/17-01**	EPA 625	OEXT/26010	EPA 625	MSSV/8797
92190355004	**B-18-01**	EPA 625	OEXT/26010	EPA 625	MSSV/8797
92190355005	**DUPLICATE-2**	EPA 625	OEXT/26010	EPA 625	MSSV/8797
92190355006	**B-07-02 8'**	EPA 3546	OEXT/26015	EPA 8270	MSSV/8785
92190355007	**B-07-06 10'**	EPA 3546	OEXT/26015	EPA 8270	MSSV/8785
92190355003	**B-16/17-01**	SM 6200B	MSV/25905		
92190355004	**B-18-01**	SM 6200B	MSV/25905		
92190355005	**DUPLICATE-2**	SM 6200B	MSV/25905		
92190355003	**B-16/17-01**	EPA 8260	MSV/25862		
92190355004	**B-18-01**	EPA 8260	MSV/25862		
92190355005	**DUPLICATE-2**	EPA 8260	MSV/25862		
92190355006	**B-07-02 8'**	EPA 8260	MSV/25855		
92190355007	**B-07-06 10'**	EPA 8260	MSV/25855		
92190355001	**B-13-01 6FT**	ASTM D2974-87	PMST/6289		
92190355002	**DUPLICATE -1**	ASTM D2974-87	PMST/6289		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAYETTEVILLE PSA'S 33727.1.1
Pace Project No.: 92190355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92190355006	**B-07-02 8'**	ASTM D2974-87	PMST/6289		
92190355007	**B-07-06 10'**	ASTM D2974-87	PMST/6289		

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.13	Issuing Authority: Pace Huntersville Quality Office

Client Name: Schabel Eng.

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Optional
Proj. Due Date:
Proj. Name:

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.: 5.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZD 2/20/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12. Received 2 extra samples not on COC EPH, metals by 6010, 8270, VPH kit, and 8260 kit not on COC. Sample #1 ID - B-07-07 8' 2/18/14 at 1620
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. Sample #2 ID - B-07-06 16' 2/18/14 at 1610
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Ben Bradley Date/Time: 2/20/14

Comments/ Resolution: Ben informed to analyze extra samples for: DRO, GRO, 8260, 8270, crt Pb, VPH, & EPH. KD

SCURF Review: KD Date: 2/20/14

SRF Review: KD Date: 2/21/14

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#: 92190355

92190355

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1785329

Section A — Required Client Information:

Company: Schnabel Engineering
Address: 1-A Oak Branch Dr
Greensboro, NC 27407
Email To: bradley@schnabeleng.com
Phone: Fax:
Requested Due Date/TAT:

Section B — Required Project Information:

Report To: Ben Bradley
Copy To:
Purchase Order No.:
Project Name: Fayetteville PSAs
Project Number: B-4490

Section C — Invoice Information:

Attention:
Company Name: WBS Element 33727.1.1
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	TPH Gas	TPH Diesel	Cr+Pb	VPH	EPH	625+10 Tics	6200B	Ethylene Glycol	Ethanol	Halogenated/Non Halogenated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-13-01 6 FT	SL	G	2-19	2:15				4										X	X									001
2	Duplicate-1	SL	|	2-19					4										X	X									DUP
3	B-16/17-01	WT	|	2-19	13:00															X	X	X	X	X	X	X	X		002
4	B-15-01	WT	|	2-19	14:30															X	X	X	X	X	X	X	X		003
5	Duplicate-2	WT	↓	2-19																X	X	X	X	X	X	X	X		DUP
6																													006
7																													007
8																													
9																													
10																													
11																													
12																													

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Benjamin L. Bradley	2-19	16:15	Zack [illegible]	2/20/14	930	5.8	4	4	4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 24, 2014

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092
FAX: (704) 875-9091

RE: 92190355

Dear Kevin Godwin: Order No: 1402F81

Analytical Environmental Services, Inc. received 3 samples on 2/20/2014 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest
Project Manager

Chain of Custody

1402F81

Pace Analytical® www.pacelabs.com

Workorder: 92190355 **Workorder Name:** FAYETTEVILLE PSA'S 33727.1.1 **Results Requested** 3/6/2014

Report / Invoice To

Kevin Godwin
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: kevin.godwin@pacelabs.com

Subcontract To

AES

P.O. KRG 13345

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved (Preserved Containers)	Requested Analysis: Formaldehyde 8315	LAB USE ONLY
1	B-16/17-01	2/19/2014 13:00	92190355003	Water	2	X	
2	B-18-01	2/19/2014 14:30	92190355004	Water	2	X	
3	DUPLICATE-2	2/19/2014 00:00	92190355005	Water	2	X	
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	2/21/14 14:22		
2			OC received via mail	2/21/14
3		samples received	[signature] 2/24/14 [illegible]	2:24pm

Comments

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical®
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1402 F81

Page: 1 of 1

1667501

Section A Required Client Information:

Company: Schnabel Engineering
Address: 11-A Oak Branch Dr.
Greensboro, NC 27407
Email To: bradley@schnabel-eng.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Ben Bradley
Copy To:
Purchase Order No.:
Project Name: Fayetteville PSAs
Project Number: B-4490

Section C Invoice Information:

Attention:
Company Name:
Address: WBS Element 33727.1.1
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section O Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Formaldehyde 8315A	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-16/17-01	WT	G	2/19	13:00				2	X									X		
2	B-18-01	WT	G	2/19	14:30				2	X									X		
3	Duplicate-2			2/19					2	X									X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Benjamin J. Bradley	2-19-14	15:54	Jan B	2/20/14	10:25	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Analytical Environmental Services, Inc

Date: 24-Feb-14

Client: Pace Analytical Services, Inc.
Project: 92190355
Lab ID: 1402F81

Case Narrative

An additional Chain of Custody was received from Kevin Godwin via email 2/21/2014 2:26pm and was included in the report.

Analytical Environmental Services, Inc **Date:** 24-Feb-14

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	B-16/17-01
Project Name:	92190355	**Collection Date:**	2/19/2014 1:00:00 PM
Lab ID:	1402F81-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Carbonyl Compounds by HPLC SW8315A								
Formaldehyde	75	50		ug/L	187291	1	02/21/2014 14:39	RF

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 24-Feb-14

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	B-18-01
Project Name:	92190355	**Collection Date:**	2/19/2014 2:30:00 PM
Lab ID:	1402F81-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Carbonyl Compounds by HPLC SW8315A								
Formaldehyde	180	50		ug/L	187291	1	02/21/2014 14:53	RF

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 24-Feb-14

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	DUPLICATE-2
Project Name:	92190355	**Collection Date:**	2/19/2014
Lab ID:	1402F81-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Carbonyl Compounds by HPLC SW8315A								
Formaldehyde	220	50		ug/L	187291	1	02/21/2014 15:07	RF

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Pace Work Order Number 1402F81

Checklist completed by _____ 2.20.14
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes __ No ✓

Proceed with Standard TAT as per project history? Yes ✓ No __ Not Applicable __

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 24-Feb-14

Client: Pace Analytical Services, Inc.
Project: 92190355
Lab Order: 1402F81

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1402F81-001A	B-16/17-01	2/19/2014 1:00:00PM	Aqueous	Carbonyl Compounds by HPLC SW8315		02/20/2014	02/21/2014
1402F81-002A	B-18-01	2/19/2014 2:30:00PM	Aqueous	Carbonyl Compounds by HPLC SW8315		02/20/2014	02/21/2014
1402F81-003A	DUPLICATE-2	2/19/2014 12:00:00AM	Aqueous	Carbonyl Compounds by HPLC SW8315		02/20/2014	02/21/2014

Analytical Environmental Services, Inc

Date: 24-Feb-14

Client: Pace Analytical Services, Inc.
Project Name: 92190355
Workorder: 1402F81

ANALYTICAL QC SUMMARY REPORT

BatchID: 187291

Sample ID: **MB-187291**	Client ID:					Units: **ug/L**		Prep Date: **02/20/2014**		Run No: **261755**
SampleType: **MBLK**	TestCode: **Carbonyl Compounds by HPLC SW8315A**					BatchID: **187291**		Analysis Date: **02/21/2014**		Seq No: **5503066**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Formaldehyde	BRL	50								

Sample ID: **LCS-187291**	Client ID:					Units: **ug/L**		Prep Date: **02/20/2014**		Run No: **261755**
SampleType: **LCS**	TestCode: **Carbonyl Compounds by HPLC SW8315A**					BatchID: **187291**		Analysis Date: **02/21/2014**		Seq No: **5503067**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Formaldehyde	1064	50	1000	16.41	105	70	130			

Sample ID: **1402F30-001AMS**	Client ID:					Units: **ug/L**		Prep Date: **02/20/2014**		Run No: **261755**
SampleType: **MS**	TestCode: **Carbonyl Compounds by HPLC SW8315A**					BatchID: **187291**		Analysis Date: **02/21/2014**		Seq No: **5503074**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Formaldehyde	1455	50	1000	632.7	82.2	42	124			

Sample ID: **1402F30-001AMSD**	Client ID:					Units: **ug/L**		Prep Date: **02/20/2014**		Run No: **261755**
SampleType: **MSD**	TestCode: **Carbonyl Compounds by HPLC SW8315A**					BatchID: **187291**		Analysis Date: **02/21/2014**		Seq No: **5503077**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Formaldehyde	1360	50	1000	632.7	72.7	42	124	1455	6.72	29.4

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX F

MAY 15, 2014 SOIL LABORATORY ANALYTICAL RESULTS

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

May 29, 2014

Chemical Testing Engineer
Materials and Tests Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Dear Chemical Engineer:
Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 2014. 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,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ben Bradley, Schnabel Engineering

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

CERTIFICATIONS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Charlotte Certification IDs
9800 Kincey 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

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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

SAMPLE ANALYTE COUNT

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92201696001	**B-18-01A (1-3 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696002	**B-18-01A (5-7 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696003	**B-18-02A (1-2 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696004	**B-18-02A (4-5 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696005	**B-18-03A (1-2 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696006	**B-18-03A (4-5 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696007	**B-18-04A (1-3 ft)**	EPA 8015 Modified	JDW1	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696008	**B-18-04A (5-7 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696009	**B-18-05 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696010	**B-18-05 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696011	**B-18-06 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696012	**B-18-06 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696013	**B-18-07 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C

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SAMPLE ANALYTE COUNT

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696014	**B-18-07 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696015	**B-18-08 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696016	**B-18-08 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696017	**Dup-1**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696018	**B-18-09 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C

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SAMPLE ANALYTE COUNT

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	AES	1	PASI-C
92201696019	**B-18-09 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696020	**B-18-10 (1-2 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696021	**B-18-10 (4-5 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696022	**B-18-11 (1-3 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696023	**B-18-11 (5-7 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696024	**B-18-12 (1-3 ft)**	MADEP VPH	CAM	5	PASI-C
		EPA 6010	JMW	2	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92201696025	**B-18-12 (5-7 ft)**	EPA 8015 Modified	JDW1	2	PASI-C
		MADEP EPH	JDW1	7	PASI-C
		EPA 8015 Modified	CAM	2	PASI-C
		MADEP VPH	CAM	5	PASI-C

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SAMPLE ANALYTE COUNT

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JMW	2	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	AES	1	PASI-C

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 8015 Modified**
Description: 8015 GCS THC-Diesel
Client: NCDOT South East
Date: May 29, 2014

General Information:
13 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

General Information:
13 samples were analyzed for MADEP EPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP EPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/27754

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-01A (5-7 ft) (Lab ID: 92201696002)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-02A (4-5 ft) (Lab ID: 92201696004)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-03A (4-5 ft) (Lab ID: 92201696006)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: OEXT/27754

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-03A (4-5 ft) (Lab ID: 92201696006)
  - Aromatic (C11-C22)
- B-18-04A (1-3 ft) (Lab ID: 92201696007)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-05 (1-2 ft) (Lab ID: 92201696009)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-06 (1-2 ft) (Lab ID: 92201696011)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-07 (1-2 ft) (Lab ID: 92201696013)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-08 (1-2 ft) (Lab ID: 92201696015)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-09 (1-2 ft) (Lab ID: 92201696018)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-10 (1-2 ft) (Lab ID: 92201696020)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-11 (5-7 ft) (Lab ID: 92201696023)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- B-18-12 (5-7 ft) (Lab ID: 92201696025)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- BLANK (Lab ID: 1201798)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: OEXT/27754

N2: The lab does not hold TNI accreditation for this parameter.

- Dup-1 (Lab ID: 92201696017)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCS (Lab ID: 1201799)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCSD (Lab ID: 1201800)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 8015 Modified**
Description: Gasoline Range Organics
Client: NCDOT South East
Date: May 29, 2014

General Information:
13 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

General Information:
25 samples were analyzed for MADEP VPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP VPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/8096

S0: Surrogate recovery outside laboratory control limits.

- B-18-04A (5-7 ft) (Lab ID: 92201696008)
  - 4-Bromofluorobenzene (FID) (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: GCV/8095

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-08 (4-5 ft) (Lab ID: 92201696016)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: GCV/8095

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-08 (4-5 ft) (Lab ID: 92201696016)
  - Aromatic (C09-C10)
- BLANK (Lab ID: 1201786)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 1201787)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 1201788)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

QC Batch: GCV/8096

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-02A (1-2 ft) (Lab ID: 92201696003)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-02A (4-5 ft) (Lab ID: 92201696004)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-03A (1-2 ft) (Lab ID: 92201696005)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-03A (4-5 ft) (Lab ID: 92201696006)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-04A (1-3 ft) (Lab ID: 92201696007)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-04A (5-7 ft) (Lab ID: 92201696008)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-05 (1-2 ft) (Lab ID: 92201696009)
  - Aliphatic (C05-C08)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: GCV/8096

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-05 (1-2 ft) (Lab ID: 92201696009)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-05 (4-5 ft) (Lab ID: 92201696010)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-06 (1-2 ft) (Lab ID: 92201696011)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-06 (4-5 ft) (Lab ID: 92201696012)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- BLANK (Lab ID: 1201789)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 1201790)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 1201791)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

QC Batch: GCV/8112

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-01A (1-3 ft) (Lab ID: 92201696001)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-01A (5-7 ft) (Lab ID: 92201696002)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-07 (1-2 ft) (Lab ID: 92201696013)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: GCV/8112

N2: The lab does not hold TNI accreditation for this parameter.

- B-18-07 (4-5 ft) (Lab ID: 92201696014)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-08 (1-2 ft) (Lab ID: 92201696015)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-09 (1-2 ft) (Lab ID: 92201696018)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-09 (4-5 ft) (Lab ID: 92201696019)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-10 (1-2 ft) (Lab ID: 92201696020)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-10 (4-5 ft) (Lab ID: 92201696021)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-11 (1-3 ft) (Lab ID: 92201696022)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-11 (5-7 ft) (Lab ID: 92201696023)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-12 (1-3 ft) (Lab ID: 92201696024)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- B-18-12 (5-7 ft) (Lab ID: 92201696025)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- BLANK (Lab ID: 1204081)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT South East
Date: May 29, 2014

Analyte Comments:

QC Batch: GCV/8112

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1204081)
  - Aromatic (C09-C10)
- Dup-1 (Lab ID: 92201696017)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 1204082)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 1204083)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NCDOT South East
Date: May 29, 2014

General Information:
25 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/16030

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92201696021

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

- MSD (Lab ID: 1205893)
  - Lead

R1: RPD value was outside control limits.

- MSD (Lab ID: 1205893)
  - Lead

Additional Comments:

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 8270**
Description: 8270 MSSV Microwave
Client: NCDOT South East
Date: May 29, 2014

General Information:
13 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: NCDOT South East
Date: May 29, 2014

General Information:
25 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/26860

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1201943)
  - Vinyl acetate

QC Batch: MSV/26866

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1202082)
  - Trichloroethene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/26866

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92201830001,92201832001

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

- MS (Lab ID: 1202083)
  - Dibromomethane
  - Tetrachloroethene
- MS (Lab ID: 1202085)
  - Carbon tetrachloride

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PROJECT NARRATIVE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: NCDOT South East
Date: May 29, 2014

QC Batch: MSV/26866

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92201830001,92201832001

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

- Dibromomethane
- Tetrachloroethene

- MSD (Lab ID: 1202084)
  - Dibromomethane
  - Vinyl acetate
- MSD (Lab ID: 1202086)
  - Bromochloromethane
  - Dibromomethane
  - Hexachloro-1,3-butadiene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1202084)
  - Bromomethane
- MSD (Lab ID: 1202086)
  - Hexachloro-1,3-butadiene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (1-3 ft) **Lab ID: 92201696001** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 20:25		N2
Aliphatic (C09-C12)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 20:25		N2
Aromatic (C09-C10)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 20:25		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	118	%	70-130	1	05/21/14 16:56	05/21/14 20:25	460-00-4	
4-Bromofluorobenzene (PID) (S)	117	%	70-130	1	05/21/14 16:56	05/21/14 20:25	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**1.0**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 19:44	7440-47-3	
Lead	**1.2**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 19:44	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	73.0	1		05/19/14 20:58	67-64-1	
Benzene	ND	ug/kg	3.6	1		05/19/14 20:58	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1		05/19/14 20:58	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1		05/19/14 20:58	75-27-4	
Bromoform	ND	ug/kg	3.6	1		05/19/14 20:58	75-25-2	
Bromomethane	ND	ug/kg	7.3	1		05/19/14 20:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	73.0	1		05/19/14 20:58	78-93-3	
n-Butylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.6	1		05/19/14 20:58	56-23-5	
Chlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	108-90-7	
Chloroethane	ND	ug/kg	7.3	1		05/19/14 20:58	75-00-3	
Chloroform	ND	ug/kg	3.6	1		05/19/14 20:58	67-66-3	
Chloromethane	ND	ug/kg	7.3	1		05/19/14 20:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1		05/19/14 20:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	1		05/19/14 20:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.6	1		05/19/14 20:58	96-12-8	
Dibromochloromethane	ND	ug/kg	3.6	1		05/19/14 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1		05/19/14 20:58	106-93-4	
Dibromomethane	ND	ug/kg	3.6	1		05/19/14 20:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.3	1		05/19/14 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1		05/19/14 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1		05/19/14 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	1		05/19/14 20:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1		05/19/14 20:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1		05/19/14 20:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	1		05/19/14 20:58	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (1-3 ft) **Lab ID: 92201696001** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	3.6	1		05/19/14 20:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	1		05/19/14 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1		05/19/14 20:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.6	1		05/19/14 20:58	108-20-3	
Ethylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.6	1		05/19/14 20:58	87-68-3	
2-Hexanone	ND	ug/kg	36.5	1		05/19/14 20:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.6	1		05/19/14 20:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1		05/19/14 20:58	99-87-6	
Methylene Chloride	ND	ug/kg	14.6	1		05/19/14 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	36.5	1		05/19/14 20:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1		05/19/14 20:58	1634-04-4	
Naphthalene	ND	ug/kg	3.6	1		05/19/14 20:58	91-20-3	
n-Propylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	103-65-1	
Styrene	ND	ug/kg	3.6	1		05/19/14 20:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	79-34-5	
Tetrachloroethene	ND	ug/kg	3.6	1		05/19/14 20:58	127-18-4	
Toluene	ND	ug/kg	3.6	1		05/19/14 20:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	1		05/19/14 20:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.6	1		05/19/14 20:58	79-00-5	
Trichloroethene	ND	ug/kg	3.6	1		05/19/14 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	1		05/19/14 20:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.6	1		05/19/14 20:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.6	1		05/19/14 20:58	108-67-8	
Vinyl acetate	ND	ug/kg	36.5	1		05/19/14 20:58	108-05-4	
Vinyl chloride	ND	ug/kg	7.3	1		05/19/14 20:58	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		05/19/14 20:58	1330-20-7	
m&p-Xylene	ND	ug/kg	7.3	1		05/19/14 20:58	179601-23-1	
o-Xylene	ND	ug/kg	3.6	1		05/19/14 20:58	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		05/19/14 20:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		05/19/14 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-132	1		05/19/14 20:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.9**	%	0.10	1		05/20/14 15:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (5-7 ft) **Lab ID: 92201696002** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.4	1	05/16/14 16:20	05/20/14 21:23	68334-30-5	
Surrogates								
n-Pentacosane (S)	79	%	41-119	1	05/16/14 16:20	05/20/14 21:23	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	10.9	1	05/19/14 07:05	05/20/14 23:54		N2
Aliphatic (C19-C36)	ND	mg/kg	10.9	1	05/19/14 07:05	05/20/14 23:54		N2
Aromatic (C11-C22)	ND	mg/kg	10.9	1	05/19/14 07:05	05/20/14 21:12		N2
Surrogates								
Nonatriacontane (S)	68	%	40-140	1	05/19/14 07:05	05/20/14 23:54	7194-86-7	
o-Terphenyl (S)	72	%	40-140	1	05/19/14 07:05	05/20/14 21:12	84-15-1	
2-Fluorobiphenyl (S)	74	%	40-140	1	05/19/14 07:05	05/20/14 21:12	321-60-8	
2-Bromonaphthalene (S)	77	%	40-140	1	05/19/14 07:05	05/20/14 21:12	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.0	1	05/25/14 12:45	05/25/14 20:11	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-167	1	05/25/14 12:45	05/25/14 20:11	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.2	1	05/21/14 16:56	05/21/14 20:48		N2
Aliphatic (C09-C12)	ND	mg/kg	3.2	1	05/21/14 16:56	05/21/14 20:48		N2
Aromatic (C09-C10)	ND	mg/kg	3.2	1	05/21/14 16:56	05/21/14 20:48		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	111	%	70-130	1	05/21/14 16:56	05/21/14 20:48	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130	1	05/21/14 16:56	05/21/14 20:48	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**1.2**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:03	7440-47-3	
Lead	**1.6**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:03	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	83-32-9	
Acenaphthylene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	208-96-8	
Aniline	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	62-53-3	
Anthracene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	207-08-9	
Benzoic Acid	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	65-85-0	
Benzyl alcohol	ND	ug/kg	718	1	05/19/14 07:57	05/23/14 16:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	101-55-3	
Butylbenzylphthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	718	1	05/19/14 07:57	05/23/14 16:33	59-50-7	

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (5-7 ft) **Lab ID: 92201696002** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	108-60-1	
2-Chloronaphthalene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	91-58-7	
2-Chlorophenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	7005-72-3	
Chrysene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	53-70-3	
Dibenzofuran	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	120-83-2	
Diethylphthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	105-67-9	
Dimethylphthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	131-11-3	
Di-n-butylphthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	718	1	05/19/14 07:57	05/23/14 16:33	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	606-20-2	
Di-n-octylphthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	117-81-7	
Fluoranthene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	206-44-0	
Fluorene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	87-68-3	
Hexachlorobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	77-47-4	
Hexachloroethane	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	193-39-5	
Isophorone	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	78-59-1	
1-Methylnaphthalene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33		
Naphthalene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	91-20-3	
2-Nitroaniline	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	88-74-4	
3-Nitroaniline	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	99-09-2	
4-Nitroaniline	ND	ug/kg	718	1	05/19/14 07:57	05/23/14 16:33	100-01-6	
Nitrobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	98-95-3	
2-Nitrophenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	88-75-5	
4-Nitrophenol	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (5-7 ft) **Lab ID: 92201696002** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	86-30-6	
Pentachlorophenol	ND	ug/kg	1800	1	05/19/14 07:57	05/23/14 16:33	87-86-5	
Phenanthrene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	85-01-8	
Phenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	108-95-2	
Pyrene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	359	1	05/19/14 07:57	05/23/14 16:33	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	23-110	1	05/19/14 07:57	05/23/14 16:33	4165-60-0	
2-Fluorobiphenyl (S)	73	%	30-110	1	05/19/14 07:57	05/23/14 16:33	321-60-8	
Terphenyl-d14 (S)	67	%	28-110	1	05/19/14 07:57	05/23/14 16:33	1718-51-0	
Phenol-d6 (S)	70	%	22-110	1	05/19/14 07:57	05/23/14 16:33	13127-88-3	
2-Fluorophenol (S)	65	%	13-110	1	05/19/14 07:57	05/23/14 16:33	367-12-4	
2,4,6-Tribromophenol (S)	78	%	27-110	1	05/19/14 07:57	05/23/14 16:33	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	101	1		05/19/14 21:18	67-64-1	
Benzene	ND	ug/kg	5.0	1		05/19/14 21:18	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/19/14 21:18	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/19/14 21:18	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/19/14 21:18	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		05/19/14 21:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		05/19/14 21:18	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/19/14 21:18	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		05/19/14 21:18	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/19/14 21:18	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		05/19/14 21:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/19/14 21:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/19/14 21:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		05/19/14 21:18	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		05/19/14 21:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/19/14 21:18	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/19/14 21:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		05/19/14 21:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 21:18	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-01A (5-7 ft) **Lab ID: 92201696002** Collected: 05/15/14 11:40 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 21:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 21:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 21:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 21:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 21:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 21:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 21:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 21:18	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		05/19/14 21:18	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/19/14 21:18	87-68-3	
2-Hexanone	ND	ug/kg	50.5	1		05/19/14 21:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		05/19/14 21:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/19/14 21:18	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		05/19/14 21:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.5	1		05/19/14 21:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/19/14 21:18	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/19/14 21:18	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/19/14 21:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/19/14 21:18	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/19/14 21:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/19/14 21:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/19/14 21:18	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/19/14 21:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/19/14 21:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/19/14 21:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/19/14 21:18	108-67-8	
Vinyl acetate	ND	ug/kg	50.5	1		05/19/14 21:18	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		05/19/14 21:18	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		05/19/14 21:18	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		05/19/14 21:18	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		05/19/14 21:18	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		05/19/14 21:18	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		05/19/14 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132	1		05/19/14 21:18	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.1**	%	0.10	1		05/20/14 15:51		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (1-2 ft) **Lab ID: 92201696003** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.3	1	05/20/14 16:47	05/20/14 20:17		N2
Aliphatic (C09-C12)	ND	mg/kg	2.3	1	05/20/14 16:47	05/20/14 20:17		N2
Aromatic (C09-C10)	ND	mg/kg	2.3	1	05/20/14 16:47	05/20/14 20:17		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	121	%	70-130	1	05/20/14 16:47	05/20/14 20:17	460-00-4	
4-Bromofluorobenzene (PID) (S)	113	%	70-130	1	05/20/14 16:47	05/20/14 20:17	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**4.3**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:06	7440-47-3	
Lead	**28.8**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:06	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	93.7	1		05/19/14 21:37	67-64-1	
Benzene	ND	ug/kg	4.7	1		05/19/14 21:37	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		05/19/14 21:37	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		05/19/14 21:37	75-27-4	
Bromoform	ND	ug/kg	4.7	1		05/19/14 21:37	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		05/19/14 21:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.7	1		05/19/14 21:37	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		05/19/14 21:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		05/19/14 21:37	75-00-3	
Chloroform	ND	ug/kg	4.7	1		05/19/14 21:37	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		05/19/14 21:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		05/19/14 21:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		05/19/14 21:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		05/19/14 21:37	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		05/19/14 21:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		05/19/14 21:37	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		05/19/14 21:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		05/19/14 21:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 21:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 21:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 21:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 21:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 21:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 21:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (1-2 ft) **Lab ID: 92201696003** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 21:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 21:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 21:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		05/19/14 21:37	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		05/19/14 21:37	87-68-3	
2-Hexanone	ND	ug/kg	46.8	1		05/19/14 21:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		05/19/14 21:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		05/19/14 21:37	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		05/19/14 21:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.8	1		05/19/14 21:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		05/19/14 21:37	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		05/19/14 21:37	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	103-65-1	
Styrene	ND	ug/kg	4.7	1		05/19/14 21:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		05/19/14 21:37	127-18-4	
Toluene	ND	ug/kg	4.7	1		05/19/14 21:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		05/19/14 21:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		05/19/14 21:37	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		05/19/14 21:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		05/19/14 21:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		05/19/14 21:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		05/19/14 21:37	108-67-8	
Vinyl acetate	ND	ug/kg	46.8	1		05/19/14 21:37	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		05/19/14 21:37	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		05/19/14 21:37	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		05/19/14 21:37	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		05/19/14 21:37	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		05/19/14 21:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/19/14 21:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-132	1		05/19/14 21:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.3**	%	0.10	1		05/20/14 15:51		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (4-5 ft) **Lab ID: 92201696004** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.7	1	05/16/14 16:20	05/20/14 21:47	68334-30-5	
Surrogates								
n-Pentacosane (S)	84	%	41-119	1	05/16/14 16:20	05/20/14 21:47	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.5	1	05/19/14 07:05	05/21/14 00:26		N2
Aliphatic (C19-C36)	ND	mg/kg	11.5	1	05/19/14 07:05	05/21/14 00:26		N2
Aromatic (C11-C22)	ND	mg/kg	11.5	1	05/19/14 07:05	05/20/14 21:45		N2
Surrogates								
Nonatriacontane (S)	65	%	40-140	1	05/19/14 07:05	05/21/14 00:26	7194-86-7	
o-Terphenyl (S)	69	%	40-140	1	05/19/14 07:05	05/20/14 21:45	84-15-1	
2-Fluorobiphenyl (S)	86	%	40-140	1	05/19/14 07:05	05/20/14 21:45	321-60-8	
2-Bromonaphthalene (S)	94	%	40-140	1	05/19/14 07:05	05/20/14 21:45	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.7	1	05/25/14 12:45	05/25/14 20:34	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-167	1	05/25/14 12:45	05/25/14 20:34	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 20:40		N2
Aliphatic (C09-C12)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 20:40		N2
Aromatic (C09-C10)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 20:40		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	122	%	70-130	1	05/20/14 16:47	05/20/14 20:40	460-00-4	
4-Bromofluorobenzene (PID) (S)	117	%	70-130	1	05/20/14 16:47	05/20/14 20:40	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**3.0**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:09	7440-47-3	
Lead	**10.4**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:09	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	83-32-9	
Acenaphthylene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	208-96-8	
Aniline	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	62-53-3	
Anthracene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	120-12-7	
Benzo(a)anthracene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	56-55-3	
Benzo(a)pyrene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	207-08-9	
Benzoic Acid	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	65-85-0	
Benzyl alcohol	ND	ug/kg	758	1	05/19/14 07:57	05/23/14 18:06	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	101-55-3	
Butylbenzylphthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	758	1	05/19/14 07:57	05/23/14 18:06	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (4-5 ft) **Lab ID: 92201696004** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	108-60-1	
2-Chloronaphthalene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	91-58-7	
2-Chlorophenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	7005-72-3	
Chrysene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	53-70-3	
Dibenzofuran	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	120-83-2	
Diethylphthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	105-67-9	
Dimethylphthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	131-11-3	
Di-n-butylphthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	758	1	05/19/14 07:57	05/23/14 18:06	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	606-20-2	
Di-n-octylphthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	117-81-7	
Fluoranthene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	206-44-0	
Fluorene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	87-68-3	
Hexachlorobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	77-47-4	
Hexachloroethane	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	193-39-5	
Isophorone	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	78-59-1	
1-Methylnaphthalene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	90-12-0	
2-Methylnaphthalene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06		
Naphthalene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	91-20-3	
2-Nitroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	88-74-4	
3-Nitroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	99-09-2	
4-Nitroaniline	ND	ug/kg	758	1	05/19/14 07:57	05/23/14 18:06	100-01-6	
Nitrobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	98-95-3	
2-Nitrophenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	88-75-5	
4-Nitrophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (4-5 ft) **Lab ID: 92201696004** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	86-30-6	
Pentachlorophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:06	87-86-5	
Phenanthrene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	85-01-8	
Phenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	108-95-2	
Pyrene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	379	1	05/19/14 07:57	05/23/14 18:06	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%	23-110	1	05/19/14 07:57	05/23/14 18:06	4165-60-0	
2-Fluorobiphenyl (S)	57	%	30-110	1	05/19/14 07:57	05/23/14 18:06	321-60-8	
Terphenyl-d14 (S)	46	%	28-110	1	05/19/14 07:57	05/23/14 18:06	1718-51-0	
Phenol-d6 (S)	64	%	22-110	1	05/19/14 07:57	05/23/14 18:06	13127-88-3	
2-Fluorophenol (S)	61	%	13-110	1	05/19/14 07:57	05/23/14 18:06	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110	1	05/19/14 07:57	05/23/14 18:06	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	88.6	1		05/19/14 21:57	67-64-1	
Benzene	ND	ug/kg	4.4	1		05/19/14 21:57	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		05/19/14 21:57	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		05/19/14 21:57	75-27-4	
Bromoform	ND	ug/kg	4.4	1		05/19/14 21:57	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		05/19/14 21:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.6	1		05/19/14 21:57	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		05/19/14 21:57	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		05/19/14 21:57	75-00-3	
Chloroform	ND	ug/kg	4.4	1		05/19/14 21:57	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		05/19/14 21:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		05/19/14 21:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		05/19/14 21:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		05/19/14 21:57	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		05/19/14 21:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		05/19/14 21:57	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		05/19/14 21:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		05/19/14 21:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		05/19/14 21:57	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-02A (4-5 ft) **Lab ID: 92201696004** Collected: 05/15/14 12:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/19/14 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/19/14 21:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		05/19/14 21:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		05/19/14 21:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		05/19/14 21:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		05/19/14 21:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/19/14 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/19/14 21:57	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		05/19/14 21:57	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		05/19/14 21:57	87-68-3	
2-Hexanone	ND	ug/kg	44.3	1		05/19/14 21:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		05/19/14 21:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		05/19/14 21:57	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		05/19/14 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.3	1		05/19/14 21:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		05/19/14 21:57	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		05/19/14 21:57	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	103-65-1	
Styrene	ND	ug/kg	4.4	1		05/19/14 21:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		05/19/14 21:57	127-18-4	
Toluene	ND	ug/kg	4.4	1		05/19/14 21:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		05/19/14 21:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		05/19/14 21:57	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		05/19/14 21:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		05/19/14 21:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		05/19/14 21:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		05/19/14 21:57	108-67-8	
Vinyl acetate	ND	ug/kg	44.3	1		05/19/14 21:57	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		05/19/14 21:57	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		05/19/14 21:57	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		05/19/14 21:57	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		05/19/14 21:57	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		05/19/14 21:57	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		05/19/14 21:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-132	1		05/19/14 21:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.9**	%	0.10	1		05/20/14 15:51		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (1-2 ft) **Lab ID: 92201696005** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.6	1	05/20/14 16:47	05/20/14 21:03		N2
Aliphatic (C09-C12)	ND	mg/kg	2.6	1	05/20/14 16:47	05/20/14 21:03		N2
Aromatic (C09-C10)	ND	mg/kg	2.6	1	05/20/14 16:47	05/20/14 21:03		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	119	%	70-130	1	05/20/14 16:47	05/20/14 21:03	460-00-4	
4-Bromofluorobenzene (PID) (S)	114	%	70-130	1	05/20/14 16:47	05/20/14 21:03	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**11.1**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:12	7440-47-3	
Lead	**11.7**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:12	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	94.0	1		05/19/14 22:17	67-64-1	
Benzene	ND	ug/kg	4.7	1		05/19/14 22:17	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		05/19/14 22:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		05/19/14 22:17	75-27-4	
Bromoform	ND	ug/kg	4.7	1		05/19/14 22:17	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		05/19/14 22:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.0	1		05/19/14 22:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		05/19/14 22:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		05/19/14 22:17	75-00-3	
Chloroform	ND	ug/kg	4.7	1		05/19/14 22:17	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		05/19/14 22:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		05/19/14 22:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		05/19/14 22:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		05/19/14 22:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		05/19/14 22:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		05/19/14 22:17	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		05/19/14 22:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		05/19/14 22:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 22:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 22:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/19/14 22:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 22:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 22:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		05/19/14 22:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (1-2 ft) **Lab ID: 92201696005** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 22:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 22:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/19/14 22:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		05/19/14 22:17	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		05/19/14 22:17	87-68-3	
2-Hexanone	ND	ug/kg	47.0	1		05/19/14 22:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		05/19/14 22:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		05/19/14 22:17	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		05/19/14 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.0	1		05/19/14 22:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		05/19/14 22:17	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		05/19/14 22:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	103-65-1	
Styrene	ND	ug/kg	4.7	1		05/19/14 22:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		05/19/14 22:17	127-18-4	
Toluene	ND	ug/kg	4.7	1		05/19/14 22:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		05/19/14 22:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		05/19/14 22:17	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		05/19/14 22:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		05/19/14 22:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		05/19/14 22:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		05/19/14 22:17	108-67-8	
Vinyl acetate	ND	ug/kg	47.0	1		05/19/14 22:17	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		05/19/14 22:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		05/19/14 22:17	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		05/19/14 22:17	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		05/19/14 22:17	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		05/19/14 22:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/19/14 22:17	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-132	1		05/19/14 22:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.7**	%	0.10	1		05/20/14 15:56		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (4-5 ft) **Lab ID: 92201696006** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.7	1	05/16/14 16:20	05/20/14 21:47	68334-30-5	
Surrogates								
n-Pentacosane (S)	97	%	41-119	1	05/16/14 16:20	05/20/14 21:47	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.4	1	05/19/14 07:05	05/21/14 00:59		N2
Aliphatic (C19-C36)	ND	mg/kg	11.4	1	05/19/14 07:05	05/21/14 00:59		N2
Aromatic (C11-C22)	ND	mg/kg	11.4	1	05/19/14 07:05	05/20/14 22:17		N2
Surrogates								
Nonatriacontane (S)	76	%	40-140	1	05/19/14 07:05	05/21/14 00:59	7194-86-7	
o-Terphenyl (S)	63	%	40-140	1	05/19/14 07:05	05/20/14 22:17	84-15-1	
2-Fluorobiphenyl (S)	67	%	40-140	1	05/19/14 07:05	05/20/14 22:17	321-60-8	
2-Bromonaphthalene (S)	75	%	40-140	1	05/19/14 07:05	05/20/14 22:17	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	10.9	1	05/25/14 12:45	05/25/14 20:57	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	05/25/14 12:45	05/25/14 20:57	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.0	1	05/20/14 16:47	05/20/14 21:26		N2
Aliphatic (C09-C12)	ND	mg/kg	3.0	1	05/20/14 16:47	05/20/14 21:26		N2
Aromatic (C09-C10)	ND	mg/kg	3.0	1	05/20/14 16:47	05/20/14 21:26		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	119	%	70-130	1	05/20/14 16:47	05/20/14 21:26	460-00-4	
4-Bromofluorobenzene (PID) (S)	115	%	70-130	1	05/20/14 16:47	05/20/14 21:26	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**11.4**	mg/kg	0.45	1	05/22/14 14:40	05/23/14 20:15	7440-47-3	
Lead	**5.5**	mg/kg	0.45	1	05/22/14 14:40	05/23/14 20:15	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	83-32-9	
Acenaphthylene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	208-96-8	
Aniline	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	62-53-3	
Anthracene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	120-12-7	
Benzo(a)anthracene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	56-55-3	
Benzo(a)pyrene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	207-08-9	
Benzoic Acid	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	65-85-0	
Benzyl alcohol	ND	ug/kg	754	1	05/19/14 07:57	05/23/14 18:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	101-55-3	
Butylbenzylphthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	754	1	05/19/14 07:57	05/23/14 18:36	59-50-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (4-5 ft) **Lab ID: 92201696006** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	108-60-1	
2-Chloronaphthalene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	91-58-7	
2-Chlorophenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	7005-72-3	
Chrysene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	53-70-3	
Dibenzofuran	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	120-83-2	
Diethylphthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	105-67-9	
Dimethylphthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	131-11-3	
Di-n-butylphthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	754	1	05/19/14 07:57	05/23/14 18:36	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	606-20-2	
Di-n-octylphthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	117-81-7	
Fluoranthene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	206-44-0	
Fluorene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	87-68-3	
Hexachlorobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	77-47-4	
Hexachloroethane	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	193-39-5	
Isophorone	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	78-59-1	
1-Methylnaphthalene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	90-12-0	
2-Methylnaphthalene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36		
Naphthalene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	91-20-3	
2-Nitroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	88-74-4	
3-Nitroaniline	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	99-09-2	
4-Nitroaniline	ND	ug/kg	754	1	05/19/14 07:57	05/23/14 18:36	100-01-6	
Nitrobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	98-95-3	
2-Nitrophenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	88-75-5	
4-Nitrophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (4-5 ft) **Lab ID: 92201696006** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	86-30-6	
Pentachlorophenol	ND	ug/kg	1890	1	05/19/14 07:57	05/23/14 18:36	87-86-5	
Phenanthrene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	85-01-8	
Phenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	108-95-2	
Pyrene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	377	1	05/19/14 07:57	05/23/14 18:36	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	42	%	23-110	1	05/19/14 07:57	05/23/14 18:36	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110	1	05/19/14 07:57	05/23/14 18:36	321-60-8	
Terphenyl-d14 (S)	59	%	28-110	1	05/19/14 07:57	05/23/14 18:36	1718-51-0	
Phenol-d6 (S)	47	%	22-110	1	05/19/14 07:57	05/23/14 18:36	13127-88-3	
2-Fluorophenol (S)	44	%	13-110	1	05/19/14 07:57	05/23/14 18:36	367-12-4	
2,4,6-Tribromophenol (S)	59	%	27-110	1	05/19/14 07:57	05/23/14 18:36	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		05/19/14 22:37	67-64-1	
Benzene	ND	ug/kg	5.0	1		05/19/14 22:37	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/19/14 22:37	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/19/14 22:37	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/19/14 22:37	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		05/19/14 22:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		05/19/14 22:37	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/19/14 22:37	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		05/19/14 22:37	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/19/14 22:37	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		05/19/14 22:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/19/14 22:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/19/14 22:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		05/19/14 22:37	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		05/19/14 22:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/19/14 22:37	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/19/14 22:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		05/19/14 22:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 22:37	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-03A (4-5 ft) **Lab ID: 92201696006** Collected: 05/15/14 12:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 22:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/19/14 22:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 22:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 22:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/19/14 22:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 22:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 22:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/19/14 22:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		05/19/14 22:37	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/19/14 22:37	87-68-3	
2-Hexanone	ND	ug/kg	50.2	1		05/19/14 22:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		05/19/14 22:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/19/14 22:37	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	1		05/19/14 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.2	1		05/19/14 22:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/19/14 22:37	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/19/14 22:37	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/19/14 22:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/19/14 22:37	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/19/14 22:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/19/14 22:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/19/14 22:37	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/19/14 22:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/19/14 22:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/19/14 22:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/19/14 22:37	108-67-8	
Vinyl acetate	ND	ug/kg	50.2	1		05/19/14 22:37	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		05/19/14 22:37	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		05/19/14 22:37	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		05/19/14 22:37	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		05/19/14 22:37	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		05/19/14 22:37	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/19/14 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-132	1		05/19/14 22:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.5**	%	0.10	1		05/20/14 15:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (1-3 ft) **Lab ID: 92201696007** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.5	1	05/16/14 16:20	05/20/14 22:10	68334-30-5	
Surrogates								
n-Pentacosane (S)	64	%	41-119	1	05/16/14 16:20	05/20/14 22:10	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.0	1	05/19/14 07:05	05/21/14 01:31		N2
Aliphatic (C19-C36)	ND	mg/kg	11.0	1	05/19/14 07:05	05/21/14 01:31		N2
Aromatic (C11-C22)	ND	mg/kg	11.0	1	05/19/14 07:05	05/20/14 22:50		N2
Surrogates								
Nonatriacontane (S)	55	%	40-140	1	05/19/14 07:05	05/21/14 01:31	7194-86-7	
o-Terphenyl (S)	64	%	40-140	1	05/19/14 07:05	05/20/14 22:50	84-15-1	
2-Fluorobiphenyl (S)	69	%	40-140	1	05/19/14 07:05	05/20/14 22:50	321-60-8	
2-Bromonaphthalene (S)	73	%	40-140	1	05/19/14 07:05	05/20/14 22:50	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.6	1	05/25/14 12:45	05/25/14 21:19	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-167	1	05/25/14 12:45	05/25/14 21:19	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 21:49		N2
Aliphatic (C09-C12)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 21:49		N2
Aromatic (C09-C10)	ND	mg/kg	3.2	1	05/20/14 16:47	05/20/14 21:49		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	111	%	70-130	1	05/20/14 16:47	05/20/14 21:49	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130	1	05/20/14 16:47	05/20/14 21:49	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**8.5**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 20:18	7440-47-3	
Lead	**19.7**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 20:18	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	83-32-9	
Acenaphthylene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	208-96-8	
Aniline	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	62-53-3	
Anthracene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	207-08-9	
Benzoic Acid	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	65-85-0	
Benzyl alcohol	ND	ug/kg	724	1	05/19/14 07:57	05/23/14 19:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	724	1	05/19/14 07:57	05/23/14 19:07	59-50-7	

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (1-3 ft) **Lab ID: 92201696007** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	108-60-1	
2-Chloronaphthalene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	91-58-7	
2-Chlorophenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	7005-72-3	
Chrysene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	53-70-3	
Dibenzofuran	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	120-83-2	
Diethylphthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	105-67-9	
Dimethylphthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	724	1	05/19/14 07:57	05/23/14 19:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	117-81-7	
Fluoranthene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	206-44-0	
Fluorene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	77-47-4	
Hexachloroethane	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	193-39-5	
Isophorone	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	78-59-1	
1-Methylnaphthalene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	90-12-0	
2-Methylnaphthalene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07		
Naphthalene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	91-20-3	
2-Nitroaniline	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	88-74-4	
3-Nitroaniline	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	99-09-2	
4-Nitroaniline	ND	ug/kg	724	1	05/19/14 07:57	05/23/14 19:07	100-01-6	
Nitrobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	98-95-3	
2-Nitrophenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	88-75-5	
4-Nitrophenol	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (1-3 ft) **Lab ID: 92201696007** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	86-30-6	
Pentachlorophenol	ND	ug/kg	1810	1	05/19/14 07:57	05/23/14 19:07	87-86-5	
Phenanthrene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	85-01-8	
Phenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	108-95-2	
Pyrene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	362	1	05/19/14 07:57	05/23/14 19:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%	23-110	1	05/19/14 07:57	05/23/14 19:07	4165-60-0	
2-Fluorobiphenyl (S)	68	%	30-110	1	05/19/14 07:57	05/23/14 19:07	321-60-8	
Terphenyl-d14 (S)	77	%	28-110	1	05/19/14 07:57	05/23/14 19:07	1718-51-0	
Phenol-d6 (S)	69	%	22-110	1	05/19/14 07:57	05/23/14 19:07	13127-88-3	
2-Fluorophenol (S)	60	%	13-110	1	05/19/14 07:57	05/23/14 19:07	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110	1	05/19/14 07:57	05/23/14 19:07	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	103	1		05/19/14 22:57	67-64-1	
Benzene	ND	ug/kg	5.2	1		05/19/14 22:57	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		05/19/14 22:57	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		05/19/14 22:57	75-27-4	
Bromoform	ND	ug/kg	5.2	1		05/19/14 22:57	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		05/19/14 22:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		05/19/14 22:57	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		05/19/14 22:57	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		05/19/14 22:57	75-00-3	
Chloroform	ND	ug/kg	5.2	1		05/19/14 22:57	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		05/19/14 22:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		05/19/14 22:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		05/19/14 22:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		05/19/14 22:57	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		05/19/14 22:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		05/19/14 22:57	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		05/19/14 22:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		05/19/14 22:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		05/19/14 22:57	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (1-3 ft) **Lab ID: 92201696007** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/19/14 22:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/19/14 22:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		05/19/14 22:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		05/19/14 22:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		05/19/14 22:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		05/19/14 22:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/19/14 22:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/19/14 22:57	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		05/19/14 22:57	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		05/19/14 22:57	87-68-3	
2-Hexanone	ND	ug/kg	51.6	1		05/19/14 22:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		05/19/14 22:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		05/19/14 22:57	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		05/19/14 22:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.6	1		05/19/14 22:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		05/19/14 22:57	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		05/19/14 22:57	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	103-65-1	
Styrene	ND	ug/kg	5.2	1		05/19/14 22:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		05/19/14 22:57	127-18-4	
Toluene	ND	ug/kg	5.2	1		05/19/14 22:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		05/19/14 22:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		05/19/14 22:57	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		05/19/14 22:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		05/19/14 22:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		05/19/14 22:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		05/19/14 22:57	108-67-8	
Vinyl acetate	ND	ug/kg	51.6	1		05/19/14 22:57	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		05/19/14 22:57	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		05/19/14 22:57	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		05/19/14 22:57	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		05/19/14 22:57	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		05/19/14 22:57	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/19/14 22:57	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-132	1		05/19/14 22:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.9**	%	0.10	1		05/20/14 15:56		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (5-7 ft) **Lab ID: 92201696008** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.1	1	05/20/14 16:47	05/20/14 22:12		N2
Aliphatic (C09-C12)	ND	mg/kg	3.1	1	05/20/14 16:47	05/20/14 22:12		N2
Aromatic (C09-C10)	ND	mg/kg	3.1	1	05/20/14 16:47	05/20/14 22:12		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	132	%	70-130	1	05/20/14 16:47	05/20/14 22:12	460-00-4	S0
4-Bromofluorobenzene (PID) (S)	128	%	70-130	1	05/20/14 16:47	05/20/14 22:12	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**7.1**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:21	7440-47-3	
Lead	**28.3**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:21	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	96.5	1		05/19/14 23:17	67-64-1	
Benzene	ND	ug/kg	4.8	1		05/19/14 23:17	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/19/14 23:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/19/14 23:17	75-27-4	
Bromoform	ND	ug/kg	4.8	1		05/19/14 23:17	75-25-2	
Bromomethane	ND	ug/kg	9.6	1		05/19/14 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.5	1		05/19/14 23:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/19/14 23:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	108-90-7	
Chloroethane	ND	ug/kg	9.6	1		05/19/14 23:17	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/19/14 23:17	67-66-3	
Chloromethane	ND	ug/kg	9.6	1		05/19/14 23:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/19/14 23:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/19/14 23:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		05/19/14 23:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		05/19/14 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/19/14 23:17	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/19/14 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.6	1		05/19/14 23:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/19/14 23:17	75-35-4	
cis-1,2-Dichloroethene	**6.5**	ug/kg	4.8	1		05/19/14 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/19/14 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 23:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 23:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 23:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-04A (5-7 ft) **Lab ID: 92201696008** Collected: 05/15/14 13:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 23:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 23:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		05/19/14 23:17	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/19/14 23:17	87-68-3	
2-Hexanone	ND	ug/kg	48.2	1		05/19/14 23:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		05/19/14 23:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/19/14 23:17	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		05/19/14 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.2	1		05/19/14 23:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/19/14 23:17	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/19/14 23:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/19/14 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/19/14 23:17	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/19/14 23:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/19/14 23:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/19/14 23:17	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/19/14 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/19/14 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/19/14 23:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/19/14 23:17	108-67-8	
Vinyl acetate	ND	ug/kg	48.2	1		05/19/14 23:17	108-05-4	
Vinyl chloride	ND	ug/kg	9.6	1		05/19/14 23:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		05/19/14 23:17	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1		05/19/14 23:17	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		05/19/14 23:17	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		05/19/14 23:17	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/19/14 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	1		05/19/14 23:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.4**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (1-2 ft) **Lab ID: 92201696009** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**6.3**	mg/kg	5.6	1	05/16/14 16:20	05/20/14 22:10	68334-30-5	
Surrogates								
n-Pentacosane (S)	58	%	41-119	1	05/16/14 16:20	05/20/14 22:10	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 02:03		N2
Aliphatic (C19-C36)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 02:03		N2
Aromatic (C11-C22)	ND	mg/kg	11.1	1	05/19/14 07:05	05/20/14 23:22		N2
Surrogates								
Nonatriacontane (S)	69	%	40-140	1	05/19/14 07:05	05/21/14 02:03	7194-86-7	
o-Terphenyl (S)	65	%	40-140	1	05/19/14 07:05	05/20/14 23:22	84-15-1	
2-Fluorobiphenyl (S)	72	%	40-140	1	05/19/14 07:05	05/20/14 23:22	321-60-8	
2-Bromonaphthalene (S)	76	%	40-140	1	05/19/14 07:05	05/20/14 23:22	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.1	1	05/26/14 14:38	05/27/14 01:26	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-167	1	05/26/14 14:38	05/27/14 01:26	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.7	1	05/20/14 16:47	05/20/14 22:35		N2
Aliphatic (C09-C12)	ND	mg/kg	2.7	1	05/20/14 16:47	05/20/14 22:35		N2
Aromatic (C09-C10)	ND	mg/kg	2.7	1	05/20/14 16:47	05/20/14 22:35		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	115	%	70-130	1	05/20/14 16:47	05/20/14 22:35	460-00-4	
4-Bromofluorobenzene (PID) (S)	111	%	70-130	1	05/20/14 16:47	05/20/14 22:35	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**9.6**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:24	7440-47-3	
Lead	**7.5**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:24	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	83-32-9	
Acenaphthylene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	208-96-8	
Aniline	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	62-53-3	
Anthracene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	120-12-7	
Benzo(a)anthracene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	207-08-9	
Benzoic Acid	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	65-85-0	
Benzyl alcohol	ND	ug/kg	734	1	05/19/14 07:57	05/23/14 19:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	734	1	05/19/14 07:57	05/23/14 19:38	59-50-7	

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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (1-2 ft) **Lab ID: 92201696009** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	108-60-1	
2-Chloronaphthalene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	91-58-7	
2-Chlorophenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	7005-72-3	
Chrysene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	53-70-3	
Dibenzofuran	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	120-83-2	
Diethylphthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	105-67-9	
Dimethylphthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	734	1	05/19/14 07:57	05/23/14 19:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	117-81-7	
Fluoranthene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	206-44-0	
Fluorene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	77-47-4	
Hexachloroethane	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	193-39-5	
Isophorone	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38		
Naphthalene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	91-20-3	
2-Nitroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	88-74-4	
3-Nitroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	99-09-2	
4-Nitroaniline	ND	ug/kg	734	1	05/19/14 07:57	05/23/14 19:38	100-01-6	
Nitrobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	98-95-3	
2-Nitrophenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	88-75-5	
4-Nitrophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (1-2 ft) **Lab ID: 92201696009** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	86-30-6	
Pentachlorophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 19:38	87-86-5	
Phenanthrene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	85-01-8	
Phenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	108-95-2	
Pyrene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	367	1	05/19/14 07:57	05/23/14 19:38	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	23-110	1	05/19/14 07:57	05/23/14 19:38	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-110	1	05/19/14 07:57	05/23/14 19:38	321-60-8	
Terphenyl-d14 (S)	72	%	28-110	1	05/19/14 07:57	05/23/14 19:38	1718-51-0	
Phenol-d6 (S)	62	%	22-110	1	05/19/14 07:57	05/23/14 19:38	13127-88-3	
2-Fluorophenol (S)	56	%	13-110	1	05/19/14 07:57	05/23/14 19:38	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110	1	05/19/14 07:57	05/23/14 19:38	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	92.4	1		05/19/14 23:36	67-64-1	
Benzene	ND	ug/kg	4.6	1		05/19/14 23:36	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		05/19/14 23:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		05/19/14 23:36	75-27-4	
Bromoform	ND	ug/kg	4.6	1		05/19/14 23:36	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		05/19/14 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.4	1		05/19/14 23:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		05/19/14 23:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		05/19/14 23:36	75-00-3	
Chloroform	ND	ug/kg	4.6	1		05/19/14 23:36	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		05/19/14 23:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		05/19/14 23:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		05/19/14 23:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		05/19/14 23:36	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		05/19/14 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		05/19/14 23:36	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		05/19/14 23:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		05/19/14 23:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		05/19/14 23:36	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (1-2 ft) **Lab ID: 92201696009** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/19/14 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/19/14 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		05/19/14 23:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		05/19/14 23:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		05/19/14 23:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		05/19/14 23:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/19/14 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/19/14 23:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		05/19/14 23:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		05/19/14 23:36	87-68-3	
2-Hexanone	ND	ug/kg	46.2	1		05/19/14 23:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		05/19/14 23:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		05/19/14 23:36	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		05/19/14 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.2	1		05/19/14 23:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		05/19/14 23:36	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		05/19/14 23:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	103-65-1	
Styrene	ND	ug/kg	4.6	1		05/19/14 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		05/19/14 23:36	127-18-4	
Toluene	ND	ug/kg	4.6	1		05/19/14 23:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		05/19/14 23:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		05/19/14 23:36	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		05/19/14 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		05/19/14 23:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		05/19/14 23:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		05/19/14 23:36	108-67-8	
Vinyl acetate	ND	ug/kg	46.2	1		05/19/14 23:36	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		05/19/14 23:36	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		05/19/14 23:36	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		05/19/14 23:36	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		05/19/14 23:36	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		05/19/14 23:36	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		05/19/14 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-132	1		05/19/14 23:36	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.1**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (4-5 ft) **Lab ID: 92201696010** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.4	1	05/20/14 16:47	05/20/14 22:58		N2
Aliphatic (C09-C12)	ND	mg/kg	2.4	1	05/20/14 16:47	05/20/14 22:58		N2
Aromatic (C09-C10)	ND	mg/kg	2.4	1	05/20/14 16:47	05/20/14 22:58		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	112	%	70-130	1	05/20/14 16:47	05/20/14 22:58	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130	1	05/20/14 16:47	05/20/14 22:58	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**13.7**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:27	7440-47-3	
Lead	**8.5**	mg/kg	0.38	1	05/22/14 14:40	05/23/14 20:27	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	78.6	1		05/19/14 23:56	67-64-1	
Benzene	ND	ug/kg	3.9	1		05/19/14 23:56	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		05/19/14 23:56	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		05/19/14 23:56	75-27-4	
Bromoform	ND	ug/kg	3.9	1		05/19/14 23:56	75-25-2	
Bromomethane	ND	ug/kg	7.9	1		05/19/14 23:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	78.6	1		05/19/14 23:56	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.9	1		05/19/14 23:56	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	108-90-7	
Chloroethane	ND	ug/kg	7.9	1		05/19/14 23:56	75-00-3	
Chloroform	ND	ug/kg	3.9	1		05/19/14 23:56	67-66-3	
Chloromethane	ND	ug/kg	7.9	1		05/19/14 23:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		05/19/14 23:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		05/19/14 23:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.9	1		05/19/14 23:56	96-12-8	
Dibromochloromethane	ND	ug/kg	3.9	1		05/19/14 23:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		05/19/14 23:56	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		05/19/14 23:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.9	1		05/19/14 23:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		05/19/14 23:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		05/19/14 23:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		05/19/14 23:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		05/19/14 23:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		05/19/14 23:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		05/19/14 23:56	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-05 (4-5 ft) **Lab ID: 92201696010** Collected: 05/15/14 13:25 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	3.9	1		05/19/14 23:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		05/19/14 23:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		05/19/14 23:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.9	1		05/19/14 23:56	108-20-3	
Ethylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		05/19/14 23:56	87-68-3	
2-Hexanone	ND	ug/kg	39.3	1		05/19/14 23:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		05/19/14 23:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		05/19/14 23:56	99-87-6	
Methylene Chloride	ND	ug/kg	15.7	1		05/19/14 23:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.3	1		05/19/14 23:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		05/19/14 23:56	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		05/19/14 23:56	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	103-65-1	
Styrene	ND	ug/kg	3.9	1		05/19/14 23:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		05/19/14 23:56	127-18-4	
Toluene	ND	ug/kg	3.9	1		05/19/14 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		05/19/14 23:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		05/19/14 23:56	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		05/19/14 23:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		05/19/14 23:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		05/19/14 23:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		05/19/14 23:56	108-67-8	
Vinyl acetate	ND	ug/kg	39.3	1		05/19/14 23:56	108-05-4	
Vinyl chloride	ND	ug/kg	7.9	1		05/19/14 23:56	75-01-4	
Xylene (Total)	ND	ug/kg	7.9	1		05/19/14 23:56	1330-20-7	
m&p-Xylene	ND	ug/kg	7.9	1		05/19/14 23:56	179601-23-1	
o-Xylene	ND	ug/kg	3.9	1		05/19/14 23:56	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		05/19/14 23:56	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		05/19/14 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-132	1		05/19/14 23:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.1**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (1-2 ft) **Lab ID: 92201696011** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**5.8**	mg/kg	5.5	1	05/16/14 16:20	05/20/14 22:34	68334-30-5	
Surrogates								
n-Pentacosane (S)	72	%	41-119	1	05/16/14 16:20	05/20/14 22:34	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 02:36		N2
Aliphatic (C19-C36)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 02:36		N2
Aromatic (C11-C22)	ND	mg/kg	11.1	1	05/19/14 07:05	05/20/14 23:54		N2
Surrogates								
Nonatriacontane (S)	59	%	40-140	1	05/19/14 07:05	05/21/14 02:36	7194-86-7	
o-Terphenyl (S)	58	%	40-140	1	05/19/14 07:05	05/20/14 23:54	84-15-1	
2-Fluorobiphenyl (S)	62	%	40-140	1	05/19/14 07:05	05/20/14 23:54	321-60-8	
2-Bromonaphthalene (S)	65	%	40-140	1	05/19/14 07:05	05/20/14 23:54	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.3	1	05/26/14 14:38	05/27/14 01:49	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-167	1	05/26/14 14:38	05/27/14 01:49	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:21		N2
Aliphatic (C09-C12)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:21		N2
Aromatic (C09-C10)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:21		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	118	%	70-130	1	05/20/14 16:47	05/20/14 23:21	460-00-4	
4-Bromofluorobenzene (PID) (S)	114	%	70-130	1	05/20/14 16:47	05/20/14 23:21	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**6.2**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:40	7440-47-3	
Lead	**54.2**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:40	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	83-32-9	
Acenaphthylene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	208-96-8	
Aniline	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	62-53-3	
Anthracene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	120-12-7	
Benzo(a)anthracene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	65-85-0	
Benzyl alcohol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:09	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	101-55-3	
Butylbenzylphthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:09	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (1-2 ft) **Lab ID: 92201696011** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	108-60-1	
2-Chloronaphthalene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	91-58-7	
2-Chlorophenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	7005-72-3	
Chrysene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	53-70-3	
Dibenzofuran	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	120-83-2	
Diethylphthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	105-67-9	
Dimethylphthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	131-11-3	
Di-n-butylphthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:09	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	606-20-2	
Di-n-octylphthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	117-81-7	
Fluoranthene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	206-44-0	
Fluorene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	87-68-3	
Hexachlorobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	77-47-4	
Hexachloroethane	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	193-39-5	
Isophorone	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	78-59-1	
1-Methylnaphthalene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	90-12-0	
2-Methylnaphthalene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09		
Naphthalene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	99-09-2	
4-Nitroaniline	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:09	100-01-6	
Nitrobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	98-95-3	
2-Nitrophenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (1-2 ft) **Lab ID: 92201696011** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:09	87-86-5	
Phenanthrene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	85-01-8	
Phenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	108-95-2	
Pyrene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	366	1	05/19/14 07:57	05/23/14 20:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	61	%	23-110	1	05/19/14 07:57	05/23/14 20:09	4165-60-0	
2-Fluorobiphenyl (S)	73	%	30-110	1	05/19/14 07:57	05/23/14 20:09	321-60-8	
Terphenyl-d14 (S)	74	%	28-110	1	05/19/14 07:57	05/23/14 20:09	1718-51-0	
Phenol-d6 (S)	68	%	22-110	1	05/19/14 07:57	05/23/14 20:09	13127-88-3	
2-Fluorophenol (S)	61	%	13-110	1	05/19/14 07:57	05/23/14 20:09	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110	1	05/19/14 07:57	05/23/14 20:09	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	107	1		05/20/14 00:16	67-64-1	
Benzene	ND	ug/kg	5.3	1		05/20/14 00:16	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		05/20/14 00:16	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		05/20/14 00:16	75-27-4	
Bromoform	ND	ug/kg	5.3	1		05/20/14 00:16	75-25-2	
Bromomethane	ND	ug/kg	10.7	1		05/20/14 00:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	107	1		05/20/14 00:16	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		05/20/14 00:16	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	108-90-7	
Chloroethane	ND	ug/kg	10.7	1		05/20/14 00:16	75-00-3	
Chloroform	ND	ug/kg	5.3	1		05/20/14 00:16	67-66-3	
Chloromethane	ND	ug/kg	10.7	1		05/20/14 00:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		05/20/14 00:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		05/20/14 00:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		05/20/14 00:16	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		05/20/14 00:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		05/20/14 00:16	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		05/20/14 00:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		05/20/14 00:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		05/20/14 00:16	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (1-2 ft) **Lab ID: 92201696011** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		05/20/14 00:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		05/20/14 00:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		05/20/14 00:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		05/20/14 00:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		05/20/14 00:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		05/20/14 00:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		05/20/14 00:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		05/20/14 00:16	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		05/20/14 00:16	108-20-3	
Ethylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		05/20/14 00:16	87-68-3	
2-Hexanone	ND	ug/kg	53.4	1		05/20/14 00:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		05/20/14 00:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		05/20/14 00:16	99-87-6	
Methylene Chloride	ND	ug/kg	21.4	1		05/20/14 00:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.4	1		05/20/14 00:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		05/20/14 00:16	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		05/20/14 00:16	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	103-65-1	
Styrene	ND	ug/kg	5.3	1		05/20/14 00:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		05/20/14 00:16	127-18-4	
Toluene	ND	ug/kg	5.3	1		05/20/14 00:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		05/20/14 00:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		05/20/14 00:16	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		05/20/14 00:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		05/20/14 00:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		05/20/14 00:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		05/20/14 00:16	108-67-8	
Vinyl acetate	ND	ug/kg	53.4	1		05/20/14 00:16	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		05/20/14 00:16	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		05/20/14 00:16	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		05/20/14 00:16	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		05/20/14 00:16	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		05/20/14 00:16	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		05/20/14 00:16	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		05/20/14 00:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.8**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (4-5 ft) **Lab ID: 92201696012** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:44		N2
Aliphatic (C09-C12)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:44		N2
Aromatic (C09-C10)	ND	mg/kg	2.5	1	05/20/14 16:47	05/20/14 23:44		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	120	%	70-130	1	05/20/14 16:47	05/20/14 23:44	460-00-4	
4-Bromofluorobenzene (PID) (S)	115	%	70-130	1	05/20/14 16:47	05/20/14 23:44	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**4.6**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:43	7440-47-3	
Lead	**17.9**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:43	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	85.9	1		05/20/14 00:36	67-64-1	
Benzene	ND	ug/kg	4.3	1		05/20/14 00:36	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		05/20/14 00:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		05/20/14 00:36	75-27-4	
Bromoform	ND	ug/kg	4.3	1		05/20/14 00:36	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		05/20/14 00:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	85.9	1		05/20/14 00:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		05/20/14 00:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		05/20/14 00:36	75-00-3	
Chloroform	ND	ug/kg	4.3	1		05/20/14 00:36	67-66-3	
Chloromethane	ND	ug/kg	8.6	1		05/20/14 00:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		05/20/14 00:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		05/20/14 00:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		05/20/14 00:36	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		05/20/14 00:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		05/20/14 00:36	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		05/20/14 00:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		05/20/14 00:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 00:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 00:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 00:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 00:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 00:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 00:36	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-06 (4-5 ft) **Lab ID: 92201696012** Collected: 05/15/14 13:50 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 00:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 00:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 00:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		05/20/14 00:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		05/20/14 00:36	87-68-3	
2-Hexanone	ND	ug/kg	42.9	1		05/20/14 00:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		05/20/14 00:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		05/20/14 00:36	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		05/20/14 00:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.9	1		05/20/14 00:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		05/20/14 00:36	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		05/20/14 00:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	103-65-1	
Styrene	ND	ug/kg	4.3	1		05/20/14 00:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		05/20/14 00:36	127-18-4	
Toluene	ND	ug/kg	4.3	1		05/20/14 00:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		05/20/14 00:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		05/20/14 00:36	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		05/20/14 00:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		05/20/14 00:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		05/20/14 00:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		05/20/14 00:36	108-67-8	
Vinyl acetate	ND	ug/kg	42.9	1		05/20/14 00:36	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		05/20/14 00:36	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		05/20/14 00:36	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		05/20/14 00:36	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		05/20/14 00:36	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		05/20/14 00:36	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/20/14 00:36	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-132	1		05/20/14 00:36	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (1-2 ft) **Lab ID: 92201696013** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**6.7**	mg/kg	5.5	1	05/16/14 16:20	05/20/14 22:34	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	1	05/16/14 16:20	05/20/14 22:34	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 03:40		N2
Aliphatic (C19-C36)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 03:40		N2
Aromatic (C11-C22)	ND	mg/kg	11.1	1	05/19/14 07:05	05/21/14 00:26		N2
Surrogates								
Nonatriacontane (S)	61	%	40-140	1	05/19/14 07:05	05/21/14 03:40	7194-86-7	
o-Terphenyl (S)	64	%	40-140	1	05/19/14 07:05	05/21/14 00:26	84-15-1	
2-Fluorobiphenyl (S)	67	%	40-140	1	05/19/14 07:05	05/21/14 00:26	321-60-8	
2-Bromonaphthalene (S)	69	%	40-140	1	05/19/14 07:05	05/21/14 00:26	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.6	1	05/26/14 14:38	05/27/14 02:12	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-167	1	05/26/14 14:38	05/27/14 02:12	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 21:11		N2
Aliphatic (C09-C12)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 21:11		N2
Aromatic (C09-C10)	ND	mg/kg	2.5	1	05/21/14 16:56	05/21/14 21:11		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	114	%	70-130	1	05/21/14 16:56	05/21/14 21:11	460-00-4	
4-Bromofluorobenzene (PID) (S)	113	%	70-130	1	05/21/14 16:56	05/21/14 21:11	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**4.4**	mg/kg	0.30	1	05/22/14 14:40	05/23/14 20:46	7440-47-3	
Lead	**27.6**	mg/kg	0.30	1	05/22/14 14:40	05/23/14 20:46	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	83-32-9	
Acenaphthylene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	208-96-8	
Aniline	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	62-53-3	
Anthracene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	65-85-0	
Benzyl alcohol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:39	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	101-55-3	
Butylbenzylphthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:39	59-50-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (1-2 ft) **Lab ID: 92201696013** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	108-60-1	
2-Chloronaphthalene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	91-58-7	
2-Chlorophenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	7005-72-3	
Chrysene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	53-70-3	
Dibenzofuran	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	120-83-2	
Diethylphthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	105-67-9	
Dimethylphthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	131-11-3	
Di-n-butylphthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:39	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	606-20-2	
Di-n-octylphthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	117-81-7	
Fluoranthene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	206-44-0	
Fluorene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	87-68-3	
Hexachlorobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	77-47-4	
Hexachloroethane	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	193-39-5	
Isophorone	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	78-59-1	
1-Methylnaphthalene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	90-12-0	
2-Methylnaphthalene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39		
Naphthalene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	99-09-2	
4-Nitroaniline	ND	ug/kg	731	1	05/19/14 07:57	05/23/14 20:39	100-01-6	
Nitrobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	98-95-3	
2-Nitrophenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (1-2 ft) **Lab ID: 92201696013** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	05/19/14 07:57	05/23/14 20:39	87-86-5	
Phenanthrene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	85-01-8	
Phenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	108-95-2	
Pyrene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	365	1	05/19/14 07:57	05/23/14 20:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%	23-110	1	05/19/14 07:57	05/23/14 20:39	4165-60-0	
2-Fluorobiphenyl (S)	69	%	30-110	1	05/19/14 07:57	05/23/14 20:39	321-60-8	
Terphenyl-d14 (S)	67	%	28-110	1	05/19/14 07:57	05/23/14 20:39	1718-51-0	
Phenol-d6 (S)	69	%	22-110	1	05/19/14 07:57	05/23/14 20:39	13127-88-3	
2-Fluorophenol (S)	60	%	13-110	1	05/19/14 07:57	05/23/14 20:39	367-12-4	
2,4,6-Tribromophenol (S)	79	%	27-110	1	05/19/14 07:57	05/23/14 20:39	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	92.3	1		05/20/14 00:56	67-64-1	
Benzene	ND	ug/kg	4.6	1		05/20/14 00:56	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		05/20/14 00:56	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		05/20/14 00:56	75-27-4	
Bromoform	ND	ug/kg	4.6	1		05/20/14 00:56	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		05/20/14 00:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.3	1		05/20/14 00:56	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		05/20/14 00:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		05/20/14 00:56	75-00-3	
Chloroform	ND	ug/kg	4.6	1		05/20/14 00:56	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		05/20/14 00:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		05/20/14 00:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		05/20/14 00:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		05/20/14 00:56	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		05/20/14 00:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		05/20/14 00:56	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		05/20/14 00:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		05/20/14 00:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		05/20/14 00:56	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (1-2 ft) **Lab ID: 92201696013** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/20/14 00:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		05/20/14 00:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		05/20/14 00:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		05/20/14 00:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		05/20/14 00:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		05/20/14 00:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/20/14 00:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		05/20/14 00:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		05/20/14 00:56	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		05/20/14 00:56	87-68-3	
2-Hexanone	ND	ug/kg	46.1	1		05/20/14 00:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		05/20/14 00:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		05/20/14 00:56	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		05/20/14 00:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.1	1		05/20/14 00:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		05/20/14 00:56	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		05/20/14 00:56	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	103-65-1	
Styrene	ND	ug/kg	4.6	1		05/20/14 00:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		05/20/14 00:56	127-18-4	
Toluene	ND	ug/kg	4.6	1		05/20/14 00:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		05/20/14 00:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		05/20/14 00:56	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		05/20/14 00:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		05/20/14 00:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		05/20/14 00:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		05/20/14 00:56	108-67-8	
Vinyl acetate	ND	ug/kg	46.1	1		05/20/14 00:56	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		05/20/14 00:56	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		05/20/14 00:56	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		05/20/14 00:56	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		05/20/14 00:56	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		05/20/14 00:56	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/20/14 00:56	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	1		05/20/14 00:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.7**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (4-5 ft) **Lab ID: 92201696014** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 21:34		N2
Aliphatic (C09-C12)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 21:34		N2
Aromatic (C09-C10)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 21:34		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	113	%	70-130	1	05/21/14 16:56	05/21/14 21:34	460-00-4	
4-Bromofluorobenzene (PID) (S)	111	%	70-130	1	05/21/14 16:56	05/21/14 21:34	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**3.1**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 20:49	7440-47-3	
Lead	**20.8**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 20:49	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	84.0	1		05/20/14 01:15	67-64-1	
Benzene	ND	ug/kg	4.2	1		05/20/14 01:15	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		05/20/14 01:15	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		05/20/14 01:15	75-27-4	
Bromoform	ND	ug/kg	4.2	1		05/20/14 01:15	75-25-2	
Bromomethane	ND	ug/kg	8.4	1		05/20/14 01:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	84.0	1		05/20/14 01:15	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.2	1		05/20/14 01:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	108-90-7	
Chloroethane	ND	ug/kg	8.4	1		05/20/14 01:15	75-00-3	
Chloroform	ND	ug/kg	4.2	1		05/20/14 01:15	67-66-3	
Chloromethane	ND	ug/kg	8.4	1		05/20/14 01:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		05/20/14 01:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		05/20/14 01:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	1		05/20/14 01:15	96-12-8	
Dibromochloromethane	ND	ug/kg	4.2	1		05/20/14 01:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		05/20/14 01:15	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		05/20/14 01:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.4	1		05/20/14 01:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		05/20/14 01:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		05/20/14 01:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		05/20/14 01:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		05/20/14 01:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		05/20/14 01:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		05/20/14 01:15	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-07 (4-5 ft) **Lab ID: 92201696014** Collected: 05/15/14 14:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.2	1		05/20/14 01:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		05/20/14 01:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		05/20/14 01:15	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.2	1		05/20/14 01:15	108-20-3	
Ethylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		05/20/14 01:15	87-68-3	
2-Hexanone	ND	ug/kg	42.0	1		05/20/14 01:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		05/20/14 01:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		05/20/14 01:15	99-87-6	
Methylene Chloride	ND	ug/kg	16.8	1		05/20/14 01:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.0	1		05/20/14 01:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		05/20/14 01:15	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		05/20/14 01:15	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	103-65-1	
Styrene	ND	ug/kg	4.2	1		05/20/14 01:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		05/20/14 01:15	127-18-4	
Toluene	ND	ug/kg	4.2	1		05/20/14 01:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		05/20/14 01:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		05/20/14 01:15	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		05/20/14 01:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		05/20/14 01:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		05/20/14 01:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		05/20/14 01:15	108-67-8	
Vinyl acetate	ND	ug/kg	42.0	1		05/20/14 01:15	108-05-4	
Vinyl chloride	ND	ug/kg	8.4	1		05/20/14 01:15	75-01-4	
Xylene (Total)	ND	ug/kg	8.4	1		05/20/14 01:15	1330-20-7	
m&p-Xylene	ND	ug/kg	8.4	1		05/20/14 01:15	179601-23-1	
o-Xylene	ND	ug/kg	4.2	1		05/20/14 01:15	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		05/20/14 01:15	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/20/14 01:15	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	1		05/20/14 01:15	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.0**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (1-2 ft) **Lab ID: 92201696015** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**5.7**	mg/kg	5.6	1	05/16/14 16:20	05/20/14 22:58	68334-30-5	
Surrogates								
n-Pentacosane (S)	66	%	41-119	1	05/16/14 16:20	05/20/14 22:58	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.3	1	05/19/14 07:05	05/21/14 04:13		N2
Aliphatic (C19-C36)	ND	mg/kg	11.3	1	05/19/14 07:05	05/21/14 04:13		N2
Aromatic (C11-C22)	ND	mg/kg	11.3	1	05/19/14 07:05	05/21/14 00:59		N2
Surrogates								
Nonatriacontane (S)	67	%	40-140	1	05/19/14 07:05	05/21/14 04:13	7194-86-7	
o-Terphenyl (S)	69	%	40-140	1	05/19/14 07:05	05/21/14 00:59	84-15-1	
2-Fluorobiphenyl (S)	76	%	40-140	1	05/19/14 07:05	05/21/14 00:59	321-60-8	
2-Bromonaphthalene (S)	79	%	40-140	1	05/19/14 07:05	05/21/14 00:59	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.0	1	05/26/14 14:38	05/27/14 02:35	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-167	1	05/26/14 14:38	05/27/14 02:35	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.9	1	05/21/14 16:56	05/21/14 21:57		N2
Aliphatic (C09-C12)	ND	mg/kg	2.9	1	05/21/14 16:56	05/21/14 21:57		N2
Aromatic (C09-C10)	ND	mg/kg	2.9	1	05/21/14 16:56	05/21/14 21:57		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	119	%	70-130	1	05/21/14 16:56	05/21/14 21:57	460-00-4	
4-Bromofluorobenzene (PID) (S)	118	%	70-130	1	05/21/14 16:56	05/21/14 21:57	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**10.0**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:52	7440-47-3	
Lead	**7.3**	mg/kg	0.39	1	05/22/14 14:40	05/23/14 20:52	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	83-32-9	
Acenaphthylene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	208-96-8	
Aniline	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	62-53-3	
Anthracene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	207-08-9	
Benzoic Acid	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	65-85-0	
Benzyl alcohol	ND	ug/kg	743	1	05/19/14 07:57	05/23/14 21:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	743	1	05/19/14 07:57	05/23/14 21:11	59-50-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (1-2 ft) **Lab ID: 92201696015** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	91-58-7	
2-Chlorophenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	7005-72-3	
Chrysene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	53-70-3	
Dibenzofuran	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	120-83-2	
Diethylphthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	105-67-9	
Dimethylphthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	743	1	05/19/14 07:57	05/23/14 21:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	117-81-7	
Fluoranthene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	206-44-0	
Fluorene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	77-47-4	
Hexachloroethane	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	193-39-5	
Isophorone	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11		
Naphthalene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	99-09-2	
4-Nitroaniline	ND	ug/kg	743	1	05/19/14 07:57	05/23/14 21:11	100-01-6	
Nitrobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	98-95-3	
2-Nitrophenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (1-2 ft) **Lab ID: 92201696015** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1860	1	05/19/14 07:57	05/23/14 21:11	87-86-5	
Phenanthrene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	85-01-8	
Phenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	108-95-2	
Pyrene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	371	1	05/19/14 07:57	05/23/14 21:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%	23-110	1	05/19/14 07:57	05/23/14 21:11	4165-60-0	
2-Fluorobiphenyl (S)	71	%	30-110	1	05/19/14 07:57	05/23/14 21:11	321-60-8	
Terphenyl-d14 (S)	78	%	28-110	1	05/19/14 07:57	05/23/14 21:11	1718-51-0	
Phenol-d6 (S)	71	%	22-110	1	05/19/14 07:57	05/23/14 21:11	13127-88-3	
2-Fluorophenol (S)	64	%	13-110	1	05/19/14 07:57	05/23/14 21:11	367-12-4	
2,4,6-Tribromophenol (S)	83	%	27-110	1	05/19/14 07:57	05/23/14 21:11	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	72.8	1		05/20/14 01:35	67-64-1	
Benzene	ND	ug/kg	3.6	1		05/20/14 01:35	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1		05/20/14 01:35	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1		05/20/14 01:35	75-27-4	
Bromoform	ND	ug/kg	3.6	1		05/20/14 01:35	75-25-2	
Bromomethane	ND	ug/kg	7.3	1		05/20/14 01:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	72.8	1		05/20/14 01:35	78-93-3	
n-Butylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.6	1		05/20/14 01:35	56-23-5	
Chlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	108-90-7	
Chloroethane	ND	ug/kg	7.3	1		05/20/14 01:35	75-00-3	
Chloroform	ND	ug/kg	3.6	1		05/20/14 01:35	67-66-3	
Chloromethane	ND	ug/kg	7.3	1		05/20/14 01:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1		05/20/14 01:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	1		05/20/14 01:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.6	1		05/20/14 01:35	96-12-8	
Dibromochloromethane	ND	ug/kg	3.6	1		05/20/14 01:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1		05/20/14 01:35	106-93-4	
Dibromomethane	ND	ug/kg	3.6	1		05/20/14 01:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.3	1		05/20/14 01:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1		05/20/14 01:35	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (1-2 ft) **Lab ID: 92201696015** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1		05/20/14 01:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	1		05/20/14 01:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1		05/20/14 01:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1		05/20/14 01:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	1		05/20/14 01:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.6	1		05/20/14 01:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	1		05/20/14 01:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1		05/20/14 01:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.6	1		05/20/14 01:35	108-20-3	
Ethylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.6	1		05/20/14 01:35	87-68-3	
2-Hexanone	ND	ug/kg	36.4	1		05/20/14 01:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.6	1		05/20/14 01:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1		05/20/14 01:35	99-87-6	
Methylene Chloride	ND	ug/kg	14.6	1		05/20/14 01:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	36.4	1		05/20/14 01:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1		05/20/14 01:35	1634-04-4	
Naphthalene	ND	ug/kg	3.6	1		05/20/14 01:35	91-20-3	
n-Propylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	103-65-1	
Styrene	ND	ug/kg	3.6	1		05/20/14 01:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	79-34-5	
Tetrachloroethene	**7.5**	ug/kg	3.6	1		05/20/14 01:35	127-18-4	
Toluene	ND	ug/kg	3.6	1		05/20/14 01:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	1		05/20/14 01:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.6	1		05/20/14 01:35	79-00-5	
Trichloroethene	ND	ug/kg	3.6	1		05/20/14 01:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	1		05/20/14 01:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.6	1		05/20/14 01:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.6	1		05/20/14 01:35	108-67-8	
Vinyl acetate	ND	ug/kg	36.4	1		05/20/14 01:35	108-05-4	
Vinyl chloride	ND	ug/kg	7.3	1		05/20/14 01:35	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		05/20/14 01:35	1330-20-7	
m&p-Xylene	ND	ug/kg	7.3	1		05/20/14 01:35	179601-23-1	
o-Xylene	ND	ug/kg	3.6	1		05/20/14 01:35	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		05/20/14 01:35	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/20/14 01:35	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-132	1		05/20/14 01:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.2**	%	0.10	1		05/20/14 15:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (4-5 ft) **Lab ID: 92201696016** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.0	1	05/18/14 04:39	05/19/14 01:53		N2
Aliphatic (C09-C12)	ND	mg/kg	2.0	1	05/18/14 04:39	05/19/14 01:53		N2
Aromatic (C09-C10)	ND	mg/kg	2.0	1	05/18/14 04:39	05/19/14 01:53		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	95	%	70-130	1	05/18/14 04:39	05/19/14 01:53	460-00-4	
4-Bromofluorobenzene (PID) (S)	94	%	70-130	1	05/18/14 04:39	05/19/14 01:53	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**6.7**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:55	7440-47-3	
Lead	**8.5**	mg/kg	0.36	1	05/22/14 14:40	05/23/14 20:55	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.4	1		05/20/14 01:55	67-64-1	
Benzene	ND	ug/kg	4.0	1		05/20/14 01:55	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		05/20/14 01:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		05/20/14 01:55	75-27-4	
Bromoform	ND	ug/kg	4.0	1		05/20/14 01:55	75-25-2	
Bromomethane	ND	ug/kg	8.0	1		05/20/14 01:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	80.4	1		05/20/14 01:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		05/20/14 01:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	108-90-7	
Chloroethane	ND	ug/kg	8.0	1		05/20/14 01:55	75-00-3	
Chloroform	ND	ug/kg	4.0	1		05/20/14 01:55	67-66-3	
Chloromethane	ND	ug/kg	8.0	1		05/20/14 01:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 01:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 01:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		05/20/14 01:55	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		05/20/14 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		05/20/14 01:55	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		05/20/14 01:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.0	1		05/20/14 01:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 01:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 01:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 01:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 01:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 01:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 01:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-08 (4-5 ft) **Lab ID: 92201696016** Collected: 05/15/14 14:20 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 01:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 01:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 01:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		05/20/14 01:55	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		05/20/14 01:55	87-68-3	
2-Hexanone	ND	ug/kg	40.2	1		05/20/14 01:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		05/20/14 01:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		05/20/14 01:55	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		05/20/14 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.2	1		05/20/14 01:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		05/20/14 01:55	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		05/20/14 01:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	103-65-1	
Styrene	ND	ug/kg	4.0	1		05/20/14 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	79-34-5	
Tetrachloroethene	**6.9**	ug/kg	4.0	1		05/20/14 01:55	127-18-4	
Toluene	ND	ug/kg	4.0	1		05/20/14 01:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 01:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 01:55	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		05/20/14 01:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		05/20/14 01:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		05/20/14 01:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 01:55	108-67-8	
Vinyl acetate	ND	ug/kg	40.2	1		05/20/14 01:55	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		05/20/14 01:55	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		05/20/14 01:55	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		05/20/14 01:55	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		05/20/14 01:55	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		05/20/14 01:55	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/20/14 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-132	1		05/20/14 01:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.3**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: Dup-1 **Lab ID: 92201696017** Collected: 05/15/14 00:00 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**6.5**	mg/kg	5.9	1	05/16/14 16:20	05/20/14 22:58	68334-30-5	
Surrogates								
n-Pentacosane (S)	66	%	41-119	1	05/16/14 16:20	05/20/14 22:58	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.8	1	05/19/14 07:05	05/21/14 04:45		N2
Aliphatic (C19-C36)	ND	mg/kg	11.8	1	05/19/14 07:05	05/21/14 04:45		N2
Aromatic (C11-C22)	ND	mg/kg	11.8	1	05/19/14 07:05	05/21/14 02:03		N2
Surrogates								
Nonatriacontane (S)	59	%	40-140	1	05/19/14 07:05	05/21/14 04:45	7194-86-7	
o-Terphenyl (S)	78	%	40-140	1	05/19/14 07:05	05/21/14 02:03	84-15-1	
2-Fluorobiphenyl (S)	83	%	40-140	1	05/19/14 07:05	05/21/14 02:03	321-60-8	
2-Bromonaphthalene (S)	88	%	40-140	1	05/19/14 07:05	05/21/14 02:03	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	10.7	1	05/26/14 14:38	05/27/14 02:58	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-167	1	05/26/14 14:38	05/27/14 02:58	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.4	1	05/21/14 16:56	05/21/14 22:20		N2
Aliphatic (C09-C12)	ND	mg/kg	3.4	1	05/21/14 16:56	05/21/14 22:20		N2
Aromatic (C09-C10)	ND	mg/kg	3.4	1	05/21/14 16:56	05/21/14 22:20		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	119	%	70-130	1	05/21/14 16:56	05/21/14 22:20	460-00-4	
4-Bromofluorobenzene (PID) (S)	118	%	70-130	1	05/21/14 16:56	05/21/14 22:20	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**5.1**	mg/kg	0.32	1	05/22/14 14:40	05/23/14 20:58	7440-47-3	
Lead	**39.1**	mg/kg	0.32	1	05/22/14 14:40	05/23/14 20:58	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	83-32-9	
Acenaphthylene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	208-96-8	
Aniline	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	62-53-3	
Anthracene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	120-12-7	
Benzo(a)anthracene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	65-85-0	
Benzyl alcohol	ND	ug/kg	780	1	05/19/14 07:57	05/23/14 21:42	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	780	1	05/19/14 07:57	05/23/14 21:42	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: Dup-1 **Lab ID: 92201696017** Collected: 05/15/14 00:00 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	91-58-7	
2-Chlorophenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	7005-72-3	
Chrysene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	53-70-3	
Dibenzofuran	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	120-83-2	
Diethylphthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	105-67-9	
Dimethylphthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	131-11-3	
Di-n-butylphthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	780	1	05/19/14 07:57	05/23/14 21:42	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	606-20-2	
Di-n-octylphthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	117-81-7	
Fluoranthene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	206-44-0	
Fluorene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	87-68-3	
Hexachlorobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	77-47-4	
Hexachloroethane	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	193-39-5	
Isophorone	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	78-59-1	
1-Methylnaphthalene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	90-12-0	
2-Methylnaphthalene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42		
Naphthalene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	99-09-2	
4-Nitroaniline	ND	ug/kg	780	1	05/19/14 07:57	05/23/14 21:42	100-01-6	
Nitrobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	98-95-3	
2-Nitrophenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: Dup-1 **Lab ID: 92201696017** Collected: 05/15/14 00:00 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	05/19/14 07:57	05/23/14 21:42	87-86-5	
Phenanthrene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	85-01-8	
Phenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	108-95-2	
Pyrene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	390	1	05/19/14 07:57	05/23/14 21:42	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	23-110	1	05/19/14 07:57	05/23/14 21:42	4165-60-0	
2-Fluorobiphenyl (S)	74	%	30-110	1	05/19/14 07:57	05/23/14 21:42	321-60-8	
Terphenyl-d14 (S)	70	%	28-110	1	05/19/14 07:57	05/23/14 21:42	1718-51-0	
Phenol-d6 (S)	71	%	22-110	1	05/19/14 07:57	05/23/14 21:42	13127-88-3	
2-Fluorophenol (S)	64	%	13-110	1	05/19/14 07:57	05/23/14 21:42	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110	1	05/19/14 07:57	05/23/14 21:42	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	79.1	1		05/20/14 02:15	67-64-1	
Benzene	ND	ug/kg	4.0	1		05/20/14 02:15	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		05/20/14 02:15	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		05/20/14 02:15	75-27-4	
Bromoform	ND	ug/kg	4.0	1		05/20/14 02:15	75-25-2	
Bromomethane	ND	ug/kg	7.9	1		05/20/14 02:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	79.1	1		05/20/14 02:15	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		05/20/14 02:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	108-90-7	
Chloroethane	ND	ug/kg	7.9	1		05/20/14 02:15	75-00-3	
Chloroform	ND	ug/kg	4.0	1		05/20/14 02:15	67-66-3	
Chloromethane	ND	ug/kg	7.9	1		05/20/14 02:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 02:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 02:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		05/20/14 02:15	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		05/20/14 02:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		05/20/14 02:15	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		05/20/14 02:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.9	1		05/20/14 02:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:15	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: Dup-1 **Lab ID: 92201696017** Collected: 05/15/14 00:00 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:15	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		05/20/14 02:15	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		05/20/14 02:15	87-68-3	
2-Hexanone	ND	ug/kg	39.5	1		05/20/14 02:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		05/20/14 02:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		05/20/14 02:15	99-87-6	
Methylene Chloride	ND	ug/kg	15.8	1		05/20/14 02:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.5	1		05/20/14 02:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		05/20/14 02:15	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		05/20/14 02:15	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	103-65-1	
Styrene	ND	ug/kg	4.0	1		05/20/14 02:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	79-34-5	
Tetrachloroethene	**7.6**	ug/kg	4.0	1		05/20/14 02:15	127-18-4	
Toluene	ND	ug/kg	4.0	1		05/20/14 02:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 02:15	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		05/20/14 02:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		05/20/14 02:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		05/20/14 02:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:15	108-67-8	
Vinyl acetate	ND	ug/kg	39.5	1		05/20/14 02:15	108-05-4	
Vinyl chloride	ND	ug/kg	7.9	1		05/20/14 02:15	75-01-4	
Xylene (Total)	ND	ug/kg	7.9	1		05/20/14 02:15	1330-20-7	
m&p-Xylene	ND	ug/kg	7.9	1		05/20/14 02:15	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		05/20/14 02:15	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		05/20/14 02:15	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/20/14 02:15	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-132	1		05/20/14 02:15	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.3**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (1-2 ft) **Lab ID: 92201696018** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.5	1	05/16/14 16:20	05/20/14 23:21	68334-30-5	
Surrogates								
n-Pentacosane (S)	67	%	41-119	1	05/16/14 16:20	05/20/14 23:21	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.0	1	05/19/14 07:05	05/21/14 05:17		N2
Aliphatic (C19-C36)	ND	mg/kg	11.0	1	05/19/14 07:05	05/21/14 05:17		N2
Aromatic (C11-C22)	ND	mg/kg	11.0	1	05/19/14 07:05	05/21/14 02:36		N2
Surrogates								
Nonatriacontane (S)	66	%	40-140	1	05/19/14 07:05	05/21/14 05:17	7194-86-7	
o-Terphenyl (S)	62	%	40-140	1	05/19/14 07:05	05/21/14 02:36	84-15-1	
2-Fluorobiphenyl (S)	71	%	40-140	1	05/19/14 07:05	05/21/14 02:36	321-60-8	
2-Bromonaphthalene (S)	78	%	40-140	1	05/19/14 07:05	05/21/14 02:36	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.2	1	05/26/14 14:38	05/27/14 03:21	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-167	1	05/26/14 14:38	05/27/14 03:21	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.7	1	05/21/14 16:56	05/21/14 22:43		N2
Aliphatic (C09-C12)	ND	mg/kg	2.7	1	05/21/14 16:56	05/21/14 22:43		N2
Aromatic (C09-C10)	ND	mg/kg	2.7	1	05/21/14 16:56	05/21/14 22:43		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	115	%	70-130	1	05/21/14 16:56	05/21/14 22:43	460-00-4	
4-Bromofluorobenzene (PID) (S)	114	%	70-130	1	05/21/14 16:56	05/21/14 22:43	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**5.4**	mg/kg	0.43	1	05/22/14 14:40	05/23/14 21:02	7440-47-3	
Lead	**10.8**	mg/kg	0.43	1	05/22/14 14:40	05/23/14 21:02	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	83-32-9	
Acenaphthylene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	208-96-8	
Aniline	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	62-53-3	
Anthracene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	207-08-9	
Benzoic Acid	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	65-85-0	
Benzyl alcohol	ND	ug/kg	727	1	05/19/14 07:57	05/23/14 22:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	101-55-3	
Butylbenzylphthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	727	1	05/19/14 07:57	05/23/14 22:14	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (1-2 ft) **Lab ID: 92201696018** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	108-60-1	
2-Chloronaphthalene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	91-58-7	
2-Chlorophenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	7005-72-3	
Chrysene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	53-70-3	
Dibenzofuran	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	120-83-2	
Diethylphthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	105-67-9	
Dimethylphthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	131-11-3	
Di-n-butylphthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	727	1	05/19/14 07:57	05/23/14 22:14	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	606-20-2	
Di-n-octylphthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	117-81-7	
Fluoranthene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	206-44-0	
Fluorene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	87-68-3	
Hexachlorobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	77-47-4	
Hexachloroethane	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	193-39-5	
Isophorone	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	78-59-1	
1-Methylnaphthalene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	90-12-0	
2-Methylnaphthalene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14		
Naphthalene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	91-20-3	
2-Nitroaniline	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	88-74-4	
3-Nitroaniline	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	99-09-2	
4-Nitroaniline	ND	ug/kg	727	1	05/19/14 07:57	05/23/14 22:14	100-01-6	
Nitrobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	98-95-3	
2-Nitrophenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	88-75-5	
4-Nitrophenol	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (1-2 ft) **Lab ID: 92201696018** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	86-30-6	
Pentachlorophenol	ND	ug/kg	1820	1	05/19/14 07:57	05/23/14 22:14	87-86-5	
Phenanthrene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	85-01-8	
Phenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	108-95-2	
Pyrene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	364	1	05/19/14 07:57	05/23/14 22:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%	23-110	1	05/19/14 07:57	05/23/14 22:14	4165-60-0	
2-Fluorobiphenyl (S)	66	%	30-110	1	05/19/14 07:57	05/23/14 22:14	321-60-8	
Terphenyl-d14 (S)	69	%	28-110	1	05/19/14 07:57	05/23/14 22:14	1718-51-0	
Phenol-d6 (S)	65	%	22-110	1	05/19/14 07:57	05/23/14 22:14	13127-88-3	
2-Fluorophenol (S)	60	%	13-110	1	05/19/14 07:57	05/23/14 22:14	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110	1	05/19/14 07:57	05/23/14 22:14	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.1	1		05/20/14 02:35	67-64-1	
Benzene	ND	ug/kg	4.0	1		05/20/14 02:35	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		05/20/14 02:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		05/20/14 02:35	75-27-4	
Bromoform	ND	ug/kg	4.0	1		05/20/14 02:35	75-25-2	
Bromomethane	ND	ug/kg	8.0	1		05/20/14 02:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	80.1	1		05/20/14 02:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		05/20/14 02:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	108-90-7	
Chloroethane	ND	ug/kg	8.0	1		05/20/14 02:35	75-00-3	
Chloroform	ND	ug/kg	4.0	1		05/20/14 02:35	67-66-3	
Chloromethane	ND	ug/kg	8.0	1		05/20/14 02:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 02:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 02:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		05/20/14 02:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		05/20/14 02:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		05/20/14 02:35	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		05/20/14 02:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.0	1		05/20/14 02:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:35	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (1-2 ft) **Lab ID: 92201696018** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 02:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 02:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 02:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		05/20/14 02:35	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		05/20/14 02:35	87-68-3	
2-Hexanone	ND	ug/kg	40.0	1		05/20/14 02:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		05/20/14 02:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		05/20/14 02:35	99-87-6	
Methylene Chloride	ND	ug/kg	16.0	1		05/20/14 02:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.0	1		05/20/14 02:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		05/20/14 02:35	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		05/20/14 02:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	103-65-1	
Styrene	ND	ug/kg	4.0	1		05/20/14 02:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		05/20/14 02:35	127-18-4	
Toluene	ND	ug/kg	4.0	1		05/20/14 02:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 02:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 02:35	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		05/20/14 02:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		05/20/14 02:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		05/20/14 02:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 02:35	108-67-8	
Vinyl acetate	ND	ug/kg	40.0	1		05/20/14 02:35	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		05/20/14 02:35	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		05/20/14 02:35	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		05/20/14 02:35	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		05/20/14 02:35	95-47-6	
Surrogates								
Toluene-d8 (S)	104	%	70-130	1		05/20/14 02:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/20/14 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132	1		05/20/14 02:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (4-5 ft) **Lab ID: 92201696019** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.4	1	05/21/14 16:56	05/21/14 23:06		N2
Aliphatic (C09-C12)	ND	mg/kg	2.4	1	05/21/14 16:56	05/21/14 23:06		N2
Aromatic (C09-C10)	ND	mg/kg	2.4	1	05/21/14 16:56	05/21/14 23:06		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	116	%	70-130	1	05/21/14 16:56	05/21/14 23:06	460-00-4	
4-Bromofluorobenzene (PID) (S)	116	%	70-130	1	05/21/14 16:56	05/21/14 23:06	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**6.5**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 21:05	7440-47-3	
Lead	**18.0**	mg/kg	0.40	1	05/22/14 14:40	05/23/14 21:05	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.1	1		05/20/14 02:54	67-64-1	
Benzene	ND	ug/kg	4.3	1		05/20/14 02:54	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		05/20/14 02:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		05/20/14 02:54	75-27-4	
Bromoform	ND	ug/kg	4.3	1		05/20/14 02:54	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		05/20/14 02:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.1	1		05/20/14 02:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		05/20/14 02:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		05/20/14 02:54	75-00-3	
Chloroform	ND	ug/kg	4.3	1		05/20/14 02:54	67-66-3	
Chloromethane	ND	ug/kg	8.6	1		05/20/14 02:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		05/20/14 02:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		05/20/14 02:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		05/20/14 02:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		05/20/14 02:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		05/20/14 02:54	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		05/20/14 02:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		05/20/14 02:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/20/14 02:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 02:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 02:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		05/20/14 02:54	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-09 (4-5 ft) **Lab ID: 92201696019** Collected: 05/15/14 14:45 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 02:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/20/14 02:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		05/20/14 02:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		05/20/14 02:54	87-68-3	
2-Hexanone	ND	ug/kg	43.0	1		05/20/14 02:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		05/20/14 02:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		05/20/14 02:54	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		05/20/14 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.0	1		05/20/14 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		05/20/14 02:54	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		05/20/14 02:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	103-65-1	
Styrene	ND	ug/kg	4.3	1		05/20/14 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		05/20/14 02:54	127-18-4	
Toluene	ND	ug/kg	4.3	1		05/20/14 02:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		05/20/14 02:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		05/20/14 02:54	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		05/20/14 02:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		05/20/14 02:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		05/20/14 02:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		05/20/14 02:54	108-67-8	
Vinyl acetate	ND	ug/kg	43.0	1		05/20/14 02:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		05/20/14 02:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		05/20/14 02:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		05/20/14 02:54	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		05/20/14 02:54	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		05/20/14 02:54	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		05/20/14 02:54	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-132	1		05/20/14 02:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.9**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (1-2 ft) **Lab ID: 92201696020** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**16.4**	mg/kg	5.6	1	05/16/14 16:20	05/20/14 23:21	68334-30-5	
Surrogates								
n-Pentacosane (S)	75	%	41-119	1	05/16/14 16:20	05/20/14 23:21	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 05:49		N2
Aliphatic (C19-C36)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 05:49		N2
Aromatic (C11-C22)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 03:08		N2
Surrogates								
Nonatriacontane (S)	69	%	40-140	1	05/19/14 07:05	05/21/14 05:49	7194-86-7	
o-Terphenyl (S)	65	%	40-140	1	05/19/14 07:05	05/21/14 03:08	84-15-1	
2-Fluorobiphenyl (S)	71	%	40-140	1	05/19/14 07:05	05/21/14 03:08	321-60-8	
2-Bromonaphthalene (S)	76	%	40-140	1	05/19/14 07:05	05/21/14 03:08	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.3	1	05/26/14 14:38	05/27/14 03:44	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-167	1	05/26/14 14:38	05/27/14 03:44	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	4.7	1	05/21/14 16:56	05/21/14 23:29		N2
Aliphatic (C09-C12)	ND	mg/kg	4.7	1	05/21/14 16:56	05/21/14 23:29		N2
Aromatic (C09-C10)	ND	mg/kg	4.7	1	05/21/14 16:56	05/21/14 23:29		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	109	%	70-130	1	05/21/14 16:56	05/21/14 23:29	460-00-4	
4-Bromofluorobenzene (PID) (S)	108	%	70-130	1	05/21/14 16:56	05/21/14 23:29	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**4.1**	mg/kg	0.30	1	05/22/14 14:40	05/23/14 21:08	7440-47-3	
Lead	**170**	mg/kg	0.30	1	05/22/14 14:40	05/23/14 21:08	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	83-32-9	
Acenaphthylene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	208-96-8	
Aniline	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	62-53-3	
Anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	50-32-8	IO
Benzo(b)fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	205-99-2	IO
Benzo(g,h,i)perylene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	191-24-2	IO
Benzo(k)fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	207-08-9	IO
Benzoic Acid	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	65-85-0	
Benzyl alcohol	ND	ug/kg	738	1	05/19/14 07:57	05/23/14 22:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	738	1	05/19/14 07:57	05/23/14 22:46	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (1-2 ft) **Lab ID: 92201696020** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	108-60-1	
2-Chloronaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	91-58-7	
2-Chlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	7005-72-3	
Chrysene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	53-70-3	IO
Dibenzofuran	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	120-83-2	
Diethylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	105-67-9	
Dimethylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	738	1	05/19/14 07:57	05/23/14 22:46	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	117-81-7	
Fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	206-44-0	
Fluorene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	77-47-4	
Hexachloroethane	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	193-39-5	IO
Isophorone	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	90-12-0	
2-Methylnaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46		
Naphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	91-20-3	
2-Nitroaniline	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	88-74-4	
3-Nitroaniline	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	99-09-2	
4-Nitroaniline	ND	ug/kg	738	1	05/19/14 07:57	05/23/14 22:46	100-01-6	
Nitrobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	98-95-3	
2-Nitrophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	88-75-5	
4-Nitrophenol	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (1-2 ft) **Lab ID: 92201696020** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	86-30-6	
Pentachlorophenol	ND	ug/kg	1850	1	05/19/14 07:57	05/23/14 22:46	87-86-5	
Phenanthrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	85-01-8	
Phenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	108-95-2	
Pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 22:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	47	%	23-110	1	05/19/14 07:57	05/23/14 22:46	4165-60-0	
2-Fluorobiphenyl (S)	49	%	30-110	1	05/19/14 07:57	05/23/14 22:46	321-60-8	
Terphenyl-d14 (S)	48	%	28-110	1	05/19/14 07:57	05/23/14 22:46	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	05/19/14 07:57	05/23/14 22:46	13127-88-3	
2-Fluorophenol (S)	49	%	13-110	1	05/19/14 07:57	05/23/14 22:46	367-12-4	
2,4,6-Tribromophenol (S)	70	%	27-110	1	05/19/14 07:57	05/23/14 22:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	82.8	1		05/20/14 03:14	67-64-1	
Benzene	ND	ug/kg	4.1	1		05/20/14 03:14	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		05/20/14 03:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		05/20/14 03:14	75-27-4	
Bromoform	ND	ug/kg	4.1	1		05/20/14 03:14	75-25-2	
Bromomethane	ND	ug/kg	8.3	1		05/20/14 03:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	82.8	1		05/20/14 03:14	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		05/20/14 03:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	108-90-7	
Chloroethane	ND	ug/kg	8.3	1		05/20/14 03:14	75-00-3	
Chloroform	ND	ug/kg	4.1	1		05/20/14 03:14	67-66-3	
Chloromethane	ND	ug/kg	8.3	1		05/20/14 03:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		05/20/14 03:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		05/20/14 03:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		05/20/14 03:14	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		05/20/14 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		05/20/14 03:14	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		05/20/14 03:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.3	1		05/20/14 03:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		05/20/14 03:14	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (1-2 ft) **Lab ID: 92201696020** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		05/20/14 03:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		05/20/14 03:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		05/20/14 03:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		05/20/14 03:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		05/20/14 03:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		05/20/14 03:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		05/20/14 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		05/20/14 03:14	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		05/20/14 03:14	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		05/20/14 03:14	87-68-3	
2-Hexanone	ND	ug/kg	41.4	1		05/20/14 03:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		05/20/14 03:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		05/20/14 03:14	99-87-6	
Methylene Chloride	ND	ug/kg	16.6	1		05/20/14 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.4	1		05/20/14 03:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		05/20/14 03:14	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		05/20/14 03:14	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	103-65-1	
Styrene	ND	ug/kg	4.1	1		05/20/14 03:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		05/20/14 03:14	127-18-4	
Toluene	ND	ug/kg	4.1	1		05/20/14 03:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		05/20/14 03:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		05/20/14 03:14	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		05/20/14 03:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		05/20/14 03:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		05/20/14 03:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		05/20/14 03:14	108-67-8	
Vinyl acetate	ND	ug/kg	41.4	1		05/20/14 03:14	108-05-4	
Vinyl chloride	ND	ug/kg	8.3	1		05/20/14 03:14	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		05/20/14 03:14	1330-20-7	
m&p-Xylene	ND	ug/kg	8.3	1		05/20/14 03:14	179601-23-1	
o-Xylene	ND	ug/kg	4.1	1		05/20/14 03:14	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		05/20/14 03:14	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/20/14 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		05/20/14 03:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.6**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (4-5 ft) **Lab ID: 92201696021** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 23:52		N2
Aliphatic (C09-C12)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 23:52		N2
Aromatic (C09-C10)	ND	mg/kg	2.6	1	05/21/14 16:56	05/21/14 23:52		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	116	%	70-130	1	05/21/14 16:56	05/21/14 23:52	460-00-4	
4-Bromofluorobenzene (PID) (S)	115	%	70-130	1	05/21/14 16:56	05/21/14 23:52	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**5.7**	mg/kg	0.29	1	05/23/14 14:00	05/23/14 21:29	7440-47-3	
Lead	**23.1**	mg/kg	0.29	1	05/23/14 14:00	05/23/14 21:29	7439-92-1	M1,R1
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	88.5	1		05/20/14 03:34	67-64-1	
Benzene	ND	ug/kg	4.4	1		05/20/14 03:34	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		05/20/14 03:34	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		05/20/14 03:34	75-27-4	
Bromoform	ND	ug/kg	4.4	1		05/20/14 03:34	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		05/20/14 03:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.5	1		05/20/14 03:34	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		05/20/14 03:34	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		05/20/14 03:34	75-00-3	
Chloroform	ND	ug/kg	4.4	1		05/20/14 03:34	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		05/20/14 03:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		05/20/14 03:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		05/20/14 03:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		05/20/14 03:34	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		05/20/14 03:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		05/20/14 03:34	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		05/20/14 03:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		05/20/14 03:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		05/20/14 03:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/20/14 03:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		05/20/14 03:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		05/20/14 03:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		05/20/14 03:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		05/20/14 03:34	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-10 (4-5 ft) **Lab ID: 92201696021** Collected: 05/15/14 14:55 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.4	1		05/20/14 03:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/20/14 03:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		05/20/14 03:34	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		05/20/14 03:34	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		05/20/14 03:34	87-68-3	
2-Hexanone	ND	ug/kg	44.2	1		05/20/14 03:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		05/20/14 03:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		05/20/14 03:34	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		05/20/14 03:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.2	1		05/20/14 03:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		05/20/14 03:34	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		05/20/14 03:34	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	103-65-1	
Styrene	ND	ug/kg	4.4	1		05/20/14 03:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		05/20/14 03:34	127-18-4	
Toluene	ND	ug/kg	4.4	1		05/20/14 03:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		05/20/14 03:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		05/20/14 03:34	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		05/20/14 03:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		05/20/14 03:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		05/20/14 03:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		05/20/14 03:34	108-67-8	
Vinyl acetate	ND	ug/kg	44.2	1		05/20/14 03:34	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		05/20/14 03:34	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		05/20/14 03:34	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		05/20/14 03:34	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		05/20/14 03:34	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		05/20/14 03:34	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/20/14 03:34	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-132	1		05/20/14 03:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.7**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (1-3 ft) **Lab ID: 92201696022** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.3	1	05/21/14 16:56	05/22/14 00:15		N2
Aliphatic (C09-C12)	ND	mg/kg	2.3	1	05/21/14 16:56	05/22/14 00:15		N2
Aromatic (C09-C10)	ND	mg/kg	2.3	1	05/21/14 16:56	05/22/14 00:15		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	106	%	70-130	1	05/21/14 16:56	05/22/14 00:15	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1	05/21/14 16:56	05/22/14 00:15	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**4.9**	mg/kg	0.35	1	05/23/14 14:00	05/23/14 21:38	7440-47-3	
Lead	**5.5**	mg/kg	0.35	1	05/23/14 14:00	05/23/14 21:38	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.9	1		05/20/14 14:09	67-64-1	
Benzene	ND	ug/kg	4.0	1		05/20/14 14:09	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		05/20/14 14:09	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		05/20/14 14:09	75-27-4	
Bromoform	ND	ug/kg	4.0	1		05/20/14 14:09	75-25-2	
Bromomethane	ND	ug/kg	8.1	1		05/20/14 14:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	80.9	1		05/20/14 14:09	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		05/20/14 14:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	108-90-7	
Chloroethane	ND	ug/kg	8.1	1		05/20/14 14:09	75-00-3	
Chloroform	ND	ug/kg	4.0	1		05/20/14 14:09	67-66-3	
Chloromethane	ND	ug/kg	8.1	1		05/20/14 14:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 14:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		05/20/14 14:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		05/20/14 14:09	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		05/20/14 14:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		05/20/14 14:09	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		05/20/14 14:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.1	1		05/20/14 14:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 14:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 14:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		05/20/14 14:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 14:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 14:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		05/20/14 14:09	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (1-3 ft) **Lab ID: 92201696022** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 14:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 14:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		05/20/14 14:09	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		05/20/14 14:09	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		05/20/14 14:09	87-68-3	
2-Hexanone	ND	ug/kg	40.5	1		05/20/14 14:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		05/20/14 14:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		05/20/14 14:09	99-87-6	
Methylene Chloride	ND	ug/kg	16.2	1		05/20/14 14:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.5	1		05/20/14 14:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		05/20/14 14:09	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		05/20/14 14:09	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	103-65-1	
Styrene	ND	ug/kg	4.0	1		05/20/14 14:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		05/20/14 14:09	127-18-4	
Toluene	ND	ug/kg	4.0	1		05/20/14 14:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		05/20/14 14:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		05/20/14 14:09	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		05/20/14 14:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		05/20/14 14:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		05/20/14 14:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		05/20/14 14:09	108-67-8	
Vinyl acetate	ND	ug/kg	40.5	1		05/20/14 14:09	108-05-4	
Vinyl chloride	ND	ug/kg	8.1	1		05/20/14 14:09	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		05/20/14 14:09	1330-20-7	
m&p-Xylene	ND	ug/kg	8.1	1		05/20/14 14:09	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		05/20/14 14:09	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		05/20/14 14:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		05/20/14 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-132	1		05/20/14 14:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.9**	%	0.10	1		05/20/14 15:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (5-7 ft) **Lab ID: 92201696023** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.3	1	05/16/14 16:20	05/20/14 23:45	68334-30-5	
Surrogates								
n-Pentacosane (S)	77	%	41-119	1	05/16/14 16:20	05/20/14 23:45	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	12.6	1	05/19/14 07:05	05/21/14 06:22		N2
Aliphatic (C19-C36)	ND	mg/kg	12.6	1	05/19/14 07:05	05/21/14 06:22		N2
Aromatic (C11-C22)	ND	mg/kg	12.6	1	05/19/14 07:05	05/21/14 03:40		N2
Surrogates								
Nonatriacontane (S)	71	%	40-140	1	05/19/14 07:05	05/21/14 06:22	7194-86-7	
o-Terphenyl (S)	68	%	40-140	1	05/19/14 07:05	05/21/14 03:40	84-15-1	
2-Fluorobiphenyl (S)	65	%	40-140	1	05/19/14 07:05	05/21/14 03:40	321-60-8	
2-Bromonaphthalene (S)	75	%	40-140	1	05/19/14 07:05	05/21/14 03:40	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.4	1	05/26/14 14:38	05/27/14 04:07	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-167	1	05/26/14 14:38	05/27/14 04:07	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.5	1	05/21/14 16:56	05/22/14 00:38		N2
Aliphatic (C09-C12)	ND	mg/kg	3.5	1	05/21/14 16:56	05/22/14 00:38		N2
Aromatic (C09-C10)	ND	mg/kg	3.5	1	05/21/14 16:56	05/22/14 00:38		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	128	%	70-130	1	05/21/14 16:56	05/22/14 00:38	460-00-4	
4-Bromofluorobenzene (PID) (S)	127	%	70-130	1	05/21/14 16:56	05/22/14 00:38	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**14.0**	mg/kg	0.42	1	05/23/14 14:00	05/23/14 21:41	7440-47-3	
Lead	**7.6**	mg/kg	0.42	1	05/23/14 14:00	05/23/14 21:41	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	83-32-9	
Acenaphthylene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	208-96-8	
Aniline	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	62-53-3	
Anthracene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	120-12-7	
Benzo(a)anthracene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	56-55-3	
Benzo(a)pyrene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	207-08-9	
Benzoic Acid	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	65-85-0	
Benzyl alcohol	ND	ug/kg	833	1	05/19/14 07:57	05/23/14 23:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	101-55-3	
Butylbenzylphthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	833	1	05/19/14 07:57	05/23/14 23:17	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (5-7 ft) **Lab ID: 92201696023** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	108-60-1	
2-Chloronaphthalene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	91-58-7	
2-Chlorophenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	7005-72-3	
Chrysene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	53-70-3	
Dibenzofuran	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	120-83-2	
Diethylphthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	105-67-9	
Dimethylphthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	131-11-3	
Di-n-butylphthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	833	1	05/19/14 07:57	05/23/14 23:17	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	606-20-2	
Di-n-octylphthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	117-81-7	
Fluoranthene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	206-44-0	
Fluorene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	87-68-3	
Hexachlorobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	77-47-4	
Hexachloroethane	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	193-39-5	
Isophorone	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	78-59-1	
1-Methylnaphthalene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	90-12-0	
2-Methylnaphthalene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17		
Naphthalene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	91-20-3	
2-Nitroaniline	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	88-74-4	
3-Nitroaniline	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	99-09-2	
4-Nitroaniline	ND	ug/kg	833	1	05/19/14 07:57	05/23/14 23:17	100-01-6	
Nitrobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	98-95-3	
2-Nitrophenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	88-75-5	
4-Nitrophenol	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	621-64-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (5-7 ft) **Lab ID: 92201696023** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	86-30-6	
Pentachlorophenol	ND	ug/kg	2080	1	05/19/14 07:57	05/23/14 23:17	87-86-5	
Phenanthrene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	85-01-8	
Phenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	108-95-2	
Pyrene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	416	1	05/19/14 07:57	05/23/14 23:17	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	23-110	1	05/19/14 07:57	05/23/14 23:17	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-110	1	05/19/14 07:57	05/23/14 23:17	321-60-8	
Terphenyl-d14 (S)	74	%	28-110	1	05/19/14 07:57	05/23/14 23:17	1718-51-0	
Phenol-d6 (S)	63	%	22-110	1	05/19/14 07:57	05/23/14 23:17	13127-88-3	
2-Fluorophenol (S)	59	%	13-110	1	05/19/14 07:57	05/23/14 23:17	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110	1	05/19/14 07:57	05/23/14 23:17	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	96.5	1		05/19/14 17:35	67-64-1	
Benzene	ND	ug/kg	4.8	1		05/19/14 17:35	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/19/14 17:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/19/14 17:35	75-27-4	
Bromoform	ND	ug/kg	4.8	1		05/19/14 17:35	75-25-2	
Bromomethane	ND	ug/kg	9.6	1		05/19/14 17:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.5	1		05/19/14 17:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/19/14 17:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	108-90-7	
Chloroethane	ND	ug/kg	9.6	1		05/19/14 17:35	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/19/14 17:35	67-66-3	
Chloromethane	ND	ug/kg	9.6	1		05/19/14 17:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/19/14 17:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/19/14 17:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		05/19/14 17:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		05/19/14 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/19/14 17:35	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/19/14 17:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.6	1		05/19/14 17:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/19/14 17:35	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-11 (5-7 ft) **Lab ID: 92201696023** Collected: 05/15/14 15:05 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/19/14 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/19/14 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 17:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 17:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/19/14 17:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 17:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/19/14 17:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		05/19/14 17:35	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/19/14 17:35	87-68-3	
2-Hexanone	ND	ug/kg	48.2	1		05/19/14 17:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		05/19/14 17:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/19/14 17:35	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		05/19/14 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.2	1		05/19/14 17:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/19/14 17:35	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/19/14 17:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/19/14 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/19/14 17:35	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/19/14 17:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/19/14 17:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/19/14 17:35	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/19/14 17:35	79-01-6	L3
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/19/14 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/19/14 17:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/19/14 17:35	108-67-8	
Vinyl acetate	ND	ug/kg	48.2	1		05/19/14 17:35	108-05-4	
Vinyl chloride	ND	ug/kg	9.6	1		05/19/14 17:35	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		05/19/14 17:35	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1		05/19/14 17:35	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		05/19/14 17:35	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1		05/19/14 17:35	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130	1		05/19/14 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-132	1		05/19/14 17:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.7**	%	0.10	1		05/20/14 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (1-3 ft) **Lab ID: 92201696024** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.7	1	05/21/14 16:56	05/22/14 01:01		N2
Aliphatic (C09-C12)	ND	mg/kg	3.7	1	05/21/14 16:56	05/22/14 01:01		N2
Aromatic (C09-C10)	ND	mg/kg	3.7	1	05/21/14 16:56	05/22/14 01:01		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	110	%	70-130	1	05/21/14 16:56	05/22/14 01:01	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130	1	05/21/14 16:56	05/22/14 01:01	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**8.0**	mg/kg	0.31	1	05/23/14 14:00	05/23/14 21:45	7440-47-3	
Lead	**5.8**	mg/kg	0.31	1	05/23/14 14:00	05/23/14 21:45	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.9	1		05/19/14 17:55	67-64-1	
Benzene	ND	ug/kg	4.3	1		05/19/14 17:55	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		05/19/14 17:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		05/19/14 17:55	75-27-4	
Bromoform	ND	ug/kg	4.3	1		05/19/14 17:55	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		05/19/14 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.9	1		05/19/14 17:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		05/19/14 17:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		05/19/14 17:55	75-00-3	
Chloroform	ND	ug/kg	4.3	1		05/19/14 17:55	67-66-3	
Chloromethane	ND	ug/kg	8.7	1		05/19/14 17:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		05/19/14 17:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		05/19/14 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		05/19/14 17:55	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		05/19/14 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		05/19/14 17:55	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		05/19/14 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		05/19/14 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		05/19/14 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/19/14 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		05/19/14 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		05/19/14 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		05/19/14 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		05/19/14 17:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (1-3 ft) **Lab ID: 92201696024** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/kg	4.3	1		05/19/14 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/19/14 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		05/19/14 17:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		05/19/14 17:55	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		05/19/14 17:55	87-68-3	
2-Hexanone	ND	ug/kg	43.4	1		05/19/14 17:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		05/19/14 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		05/19/14 17:55	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		05/19/14 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.4	1		05/19/14 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		05/19/14 17:55	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		05/19/14 17:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	103-65-1	
Styrene	ND	ug/kg	4.3	1		05/19/14 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		05/19/14 17:55	127-18-4	
Toluene	ND	ug/kg	4.3	1		05/19/14 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		05/19/14 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		05/19/14 17:55	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		05/19/14 17:55	79-01-6	L3
Trichlorofluoromethane	ND	ug/kg	4.3	1		05/19/14 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		05/19/14 17:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		05/19/14 17:55	108-67-8	
Vinyl acetate	ND	ug/kg	43.4	1		05/19/14 17:55	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		05/19/14 17:55	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		05/19/14 17:55	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		05/19/14 17:55	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		05/19/14 17:55	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1		05/19/14 17:55	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130	1		05/19/14 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132	1		05/19/14 17:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.1**	%	0.10	1		05/20/14 15:59		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (5-7 ft) **Lab ID: 92201696025** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.6	1	05/16/14 16:20	05/20/14 23:45	68334-30-5	
Surrogates								
n-Pentacosane (S)	79	%	41-119	1	05/16/14 16:20	05/20/14 23:45	629-99-2	
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 06:54		N2
Aliphatic (C19-C36)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 06:54		N2
Aromatic (C11-C22)	ND	mg/kg	11.2	1	05/19/14 07:05	05/21/14 04:13		N2
Surrogates								
Nonatriacontane (S)	71	%	40-140	1	05/19/14 07:05	05/21/14 06:54	7194-86-7	
o-Terphenyl (S)	67	%	40-140	1	05/19/14 07:05	05/21/14 04:13	84-15-1	
2-Fluorobiphenyl (S)	67	%	40-140	1	05/19/14 07:05	05/21/14 04:13	321-60-8	
2-Bromonaphthalene (S)	73	%	40-140	1	05/19/14 07:05	05/21/14 04:13	580-13-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.3	1	05/26/14 14:38	05/27/14 04:30	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-167	1	05/26/14 14:38	05/27/14 04:30	460-00-4	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	2.6	1	05/21/14 16:56	05/22/14 01:24		N2
Aliphatic (C09-C12)	ND	mg/kg	2.6	1	05/21/14 16:56	05/22/14 01:24		N2
Aromatic (C09-C10)	ND	mg/kg	2.6	1	05/21/14 16:56	05/22/14 01:24		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	116	%	70-130	1	05/21/14 16:56	05/22/14 01:24	460-00-4	
4-Bromofluorobenzene (PID) (S)	115	%	70-130	1	05/21/14 16:56	05/22/14 01:24	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**6.2**	mg/kg	0.30	1	05/23/14 14:00	05/23/14 21:48	7440-47-3	
Lead	**5.6**	mg/kg	0.30	1	05/23/14 14:00	05/23/14 21:48	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	83-32-9	
Acenaphthylene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	208-96-8	
Aniline	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	62-53-3	
Anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	207-08-9	
Benzoic Acid	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	65-85-0	
Benzyl alcohol	ND	ug/kg	737	1	05/19/14 07:57	05/23/14 23:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	737	1	05/19/14 07:57	05/23/14 23:48	59-50-7	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (5-7 ft) **Lab ID: 92201696025** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
4-Chloroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	108-60-1	
2-Chloronaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	91-58-7	
2-Chlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	7005-72-3	
Chrysene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	53-70-3	
Dibenzofuran	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	120-83-2	
Diethylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	105-67-9	
Dimethylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	737	1	05/19/14 07:57	05/23/14 23:48	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	117-81-7	
Fluoranthene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	206-44-0	
Fluorene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	77-47-4	
Hexachloroethane	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	193-39-5	
Isophorone	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	78-59-1	
1-Methylnaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48		
Naphthalene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	91-20-3	
2-Nitroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	88-74-4	
3-Nitroaniline	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	99-09-2	
4-Nitroaniline	ND	ug/kg	737	1	05/19/14 07:57	05/23/14 23:48	100-01-6	
Nitrobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	98-95-3	
2-Nitrophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	88-75-5	
4-Nitrophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	621-64-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (5-7 ft) **Lab ID: 92201696025** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
N-Nitrosodiphenylamine	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	86-30-6	
Pentachlorophenol	ND	ug/kg	1840	1	05/19/14 07:57	05/23/14 23:48	87-86-5	
Phenanthrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	85-01-8	
Phenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	108-95-2	
Pyrene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	369	1	05/19/14 07:57	05/23/14 23:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	23-110	1	05/19/14 07:57	05/23/14 23:48	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-110	1	05/19/14 07:57	05/23/14 23:48	321-60-8	
Terphenyl-d14 (S)	47	%	28-110	1	05/19/14 07:57	05/23/14 23:48	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	05/19/14 07:57	05/23/14 23:48	13127-88-3	
2-Fluorophenol (S)	49	%	13-110	1	05/19/14 07:57	05/23/14 23:48	367-12-4	
2,4,6-Tribromophenol (S)	67	%	27-110	1	05/19/14 07:57	05/23/14 23:48	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	89.4	1		05/19/14 18:15	67-64-1	
Benzene	ND	ug/kg	4.5	1		05/19/14 18:15	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		05/19/14 18:15	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		05/19/14 18:15	75-27-4	
Bromoform	ND	ug/kg	4.5	1		05/19/14 18:15	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		05/19/14 18:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.4	1		05/19/14 18:15	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		05/19/14 18:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		05/19/14 18:15	75-00-3	
Chloroform	ND	ug/kg	4.5	1		05/19/14 18:15	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		05/19/14 18:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		05/19/14 18:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		05/19/14 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		05/19/14 18:15	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		05/19/14 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		05/19/14 18:15	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		05/19/14 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		05/19/14 18:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		05/19/14 18:15	75-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Sample: B-18-12 (5-7 ft) **Lab ID: 92201696025** Collected: 05/15/14 15:15 Received: 05/16/14 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		05/19/14 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		05/19/14 18:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		05/19/14 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		05/19/14 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		05/19/14 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		05/19/14 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		05/19/14 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		05/19/14 18:15	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		05/19/14 18:15	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		05/19/14 18:15	87-68-3	
2-Hexanone	ND	ug/kg	44.7	1		05/19/14 18:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		05/19/14 18:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		05/19/14 18:15	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		05/19/14 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.7	1		05/19/14 18:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		05/19/14 18:15	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		05/19/14 18:15	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	103-65-1	
Styrene	ND	ug/kg	4.5	1		05/19/14 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		05/19/14 18:15	127-18-4	
Toluene	ND	ug/kg	4.5	1		05/19/14 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		05/19/14 18:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		05/19/14 18:15	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		05/19/14 18:15	79-01-6	L3
Trichlorofluoromethane	ND	ug/kg	4.5	1		05/19/14 18:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		05/19/14 18:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		05/19/14 18:15	108-67-8	
Vinyl acetate	ND	ug/kg	44.7	1		05/19/14 18:15	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		05/19/14 18:15	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		05/19/14 18:15	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		05/19/14 18:15	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		05/19/14 18:15	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		05/19/14 18:15	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130	1		05/19/14 18:15	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132	1		05/19/14 18:15	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.5**	%	0.10	1		05/21/14 14:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: GCV/8131 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007

METHOD BLANK: 1206718 Matrix: Solid
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	05/25/14 13:39	
4-Bromofluorobenzene (S)	%	84	70-167	05/25/14 13:39	

LABORATORY CONTROL SAMPLE: 1206719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	42.9	86	70-165	
4-Bromofluorobenzene (S)	%			87	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1206720 1206721

Parameter	Units	92201696007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	47.1	47.1	49.1	51.6	104	110	47-187	5	
4-Bromofluorobenzene (S)	%						93	95	70-167		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: GCV/8139 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

METHOD BLANK: 1206756 Matrix: Solid
Associated Lab Samples: 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	05/26/14 23:31	
4-Bromofluorobenzene (S)	%	98	70-167	05/26/14 23:31	

LABORATORY CONTROL SAMPLE: 1206757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	51.1	102	70-165	
4-Bromofluorobenzene (S)	%			94	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1206758 1206759

Parameter	Units	92201832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	49.4	49.4	51.0	52.9	103	107	47-187	4	
4-Bromofluorobenzene (S)	%						99	98	70-167		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: GCV/8095 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92201696016

METHOD BLANK: 1201786 Matrix: Solid
Associated Lab Samples: 92201696016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	05/18/14 17:51	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	05/18/14 17:51	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	05/18/14 17:51	N2
4-Bromofluorobenzene (FID) (S)	%	93	70-130	05/18/14 17:51	
4-Bromofluorobenzene (PID) (S)	%	93	70-130	05/18/14 17:51	

LABORATORY CONTROL SAMPLE & LCSD: 1201787 1201788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	15	15.3	14.6	102	98	70-130	4	25	N2
Aliphatic (C09-C12)	mg/kg	15	12.5	14.4	83	96	30-130	14	25	N2
Aromatic (C09-C10)	mg/kg	5	4.5	4.4	89	89	70-130	0	25	N2
4-Bromofluorobenzene (FID) (S)	%				92	91	70-130			
4-Bromofluorobenzene (PID) (S)	%				91	91	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: GCV/8096 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010, 92201696011, 92201696012

METHOD BLANK: 1201789 Matrix: Solid
Associated Lab Samples: 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010, 92201696011, 92201696012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	05/20/14 17:13	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	05/20/14 17:13	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	05/20/14 17:13	N2
4-Bromofluorobenzene (FID) (S)	%	101	70-130	05/20/14 17:13	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	05/20/14 17:13	

LABORATORY CONTROL SAMPLE & LCSD: 1201790 1201791

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	15	15.0	15.6	100	104	70-130	4	25	N2
Aliphatic (C09-C12)	mg/kg	15	13.9	17.3	93	115	30-130	22	25	N2
Aromatic (C09-C10)	mg/kg	5	4.6	5.0	92	99	70-130	7	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	109	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	108	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: GCV/8112 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92201696001, 92201696002, 92201696013, 92201696014, 92201696015, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021, 92201696022, 92201696023, 92201696024, 92201696025

METHOD BLANK: 1204081 Matrix: Solid
Associated Lab Samples: 92201696001, 92201696002, 92201696013, 92201696014, 92201696015, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021, 92201696022, 92201696023, 92201696024, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	05/21/14 18:30	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	05/21/14 18:30	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	05/21/14 18:30	N2
4-Bromofluorobenzene (FID) (S)	%	106	70-130	05/21/14 18:30	
4-Bromofluorobenzene (PID) (S)	%	106	70-130	05/21/14 18:30	

LABORATORY CONTROL SAMPLE & LCSD: 1204082 1204083

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	15	15.3	13.4	102	89	70-130	13	25	N2
Aliphatic (C09-C12)	mg/kg	15	14.7	15.2	98	101	30-130	3	25	N2
Aromatic (C09-C10)	mg/kg	5	4.7	4.4	94	88	70-130	6	25	N2
4-Bromofluorobenzene (FID) (S)	%				104	106	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	104	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MPRP/16021 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010, 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020

METHOD BLANK: 1204851 Matrix: Solid
Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010, 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	05/23/14 19:38	
Lead	mg/kg	ND	0.50	05/23/14 19:38	

LABORATORY CONTROL SAMPLE: 1204852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	48.8	98	80-120	
Lead	mg/kg	50	49.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1204853 1204854

Parameter	Units	92201696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium	mg/kg	1.0	37.9	35.1	37.7	35.4	97	98	75-125	6	
Lead	mg/kg	1.2	37.9	35.1	38.0	35.7	97	98	75-125	6	

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MPRP/16030 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92201696021, 92201696022, 92201696023, 92201696024, 92201696025

METHOD BLANK: 1205890 Matrix: Solid
Associated Lab Samples: 92201696021, 92201696022, 92201696023, 92201696024, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	05/23/14 21:23	
Lead	mg/kg	ND	0.50	05/23/14 21:23	

LABORATORY CONTROL SAMPLE: 1205891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	50.3	101	80-120	
Lead	mg/kg	50	50.3	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1205892 1205893

Parameter	Units	92201696021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium	mg/kg	5.7	38.3	31.1	44.1	38.3	100	105	75-125	14	
Lead	mg/kg	23.1	38.3	31.1	68.7	120	119	312	75-125	54	M1,R1

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MSV/26859 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010

METHOD BLANK: 1201940 Matrix: Solid
Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,1,1-Trichloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,1,2-Trichloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,1-Dichloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,1-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:20	
1,1-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,2,3-Trichloropropane	ug/kg	ND	4.0	05/19/14 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.0	05/19/14 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.0	05/19/14 17:20	
1,2-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,2-Dichloroethane	ug/kg	ND	4.0	05/19/14 17:20	
1,2-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,3-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
1,3-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:20	
1,4-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
2,2-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:20	
2-Butanone (MEK)	ug/kg	ND	80.3	05/19/14 17:20	
2-Chlorotoluene	ug/kg	ND	4.0	05/19/14 17:20	
2-Hexanone	ug/kg	ND	40.1	05/19/14 17:20	
4-Chlorotoluene	ug/kg	ND	4.0	05/19/14 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	40.1	05/19/14 17:20	
Acetone	ug/kg	ND	80.3	05/19/14 17:20	
Benzene	ug/kg	ND	4.0	05/19/14 17:20	
Bromobenzene	ug/kg	ND	4.0	05/19/14 17:20	
Bromochloromethane	ug/kg	ND	4.0	05/19/14 17:20	
Bromodichloromethane	ug/kg	ND	4.0	05/19/14 17:20	
Bromoform	ug/kg	ND	4.0	05/19/14 17:20	
Bromomethane	ug/kg	ND	8.0	05/19/14 17:20	
Carbon tetrachloride	ug/kg	ND	4.0	05/19/14 17:20	
Chlorobenzene	ug/kg	ND	4.0	05/19/14 17:20	
Chloroethane	ug/kg	ND	8.0	05/19/14 17:20	
Chloroform	ug/kg	ND	4.0	05/19/14 17:20	
Chloromethane	ug/kg	ND	8.0	05/19/14 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:20	

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

METHOD BLANK: 1201940 Matrix: Solid

Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004, 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	4.0	05/19/14 17:20	
Dibromomethane	ug/kg	ND	4.0	05/19/14 17:20	
Dichlorodifluoromethane	ug/kg	ND	8.0	05/19/14 17:20	
Diisopropyl ether	ug/kg	ND	4.0	05/19/14 17:20	
Ethylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	4.0	05/19/14 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	4.0	05/19/14 17:20	
m&p-Xylene	ug/kg	ND	8.0	05/19/14 17:20	
Methyl-tert-butyl ether	ug/kg	ND	4.0	05/19/14 17:20	
Methylene Chloride	ug/kg	ND	16.1	05/19/14 17:20	
n-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
n-Propylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
Naphthalene	ug/kg	ND	4.0	05/19/14 17:20	
o-Xylene	ug/kg	ND	4.0	05/19/14 17:20	
p-Isopropyltoluene	ug/kg	ND	4.0	05/19/14 17:20	
sec-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
Styrene	ug/kg	ND	4.0	05/19/14 17:20	
tert-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:20	
Tetrachloroethene	ug/kg	ND	4.0	05/19/14 17:20	
Toluene	ug/kg	ND	4.0	05/19/14 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:20	
Trichloroethene	ug/kg	ND	4.0	05/19/14 17:20	
Trichlorofluoromethane	ug/kg	ND	4.0	05/19/14 17:20	
Vinyl acetate	ug/kg	ND	40.1	05/19/14 17:20	
Vinyl chloride	ug/kg	ND	8.0	05/19/14 17:20	
Xylene (Total)	ug/kg	ND	8.0	05/19/14 17:20	
1,2-Dichloroethane-d4 (S)	%	105	70-132	05/19/14 17:20	
4-Bromofluorobenzene (S)	%	97	70-130	05/19/14 17:20	
Toluene-d8 (S)	%	105	70-130	05/19/14 17:20	

LABORATORY CONTROL SAMPLE: 1201941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	49.7	51.7	104	70-131	
1,1,1-Trichloroethane	ug/kg	49.7	51.1	103	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	49.7	41.3	83	70-130	
1,1,2-Trichloroethane	ug/kg	49.7	49.6	100	70-132	
1,1-Dichloroethane	ug/kg	49.7	48.9	98	70-143	
1,1-Dichloroethene	ug/kg	49.7	52.1	105	70-137	
1,1-Dichloropropene	ug/kg	49.7	51.9	104	70-135	
1,2,3-Trichlorobenzene	ug/kg	49.7	45.5	91	69-153	
1,2,3-Trichloropropane	ug/kg	49.7	51.4	103	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	49.7	44.7	90	55-171	
1,2,4-Trimethylbenzene	ug/kg	49.7	53.0	107	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	49.7	51.8	104	68-141	
1,2-Dibromoethane (EDB)	ug/kg	49.7	47.8	96	70-130	
1,2-Dichlorobenzene	ug/kg	49.7	49.1	99	70-140	
1,2-Dichloroethane	ug/kg	49.7	52.8	106	70-137	
1,2-Dichloropropane	ug/kg	49.7	48.3	97	70-133	
1,3,5-Trimethylbenzene	ug/kg	49.7	52.2	105	70-143	
1,3-Dichlorobenzene	ug/kg	49.7	47.9	96	70-144	
1,3-Dichloropropane	ug/kg	49.7	48.2	97	70-132	
1,4-Dichlorobenzene	ug/kg	49.7	48.9	98	70-142	
2,2-Dichloropropane	ug/kg	49.7	51.6	104	68-152	
2-Butanone (MEK)	ug/kg	99.4	92.7J	93	70-149	
2-Chlorotoluene	ug/kg	49.7	48.5	98	70-141	
2-Hexanone	ug/kg	99.4	82.9	83	70-149	
4-Chlorotoluene	ug/kg	49.7	49.7	100	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	99.4	81.3	82	70-153	
Acetone	ug/kg	99.4	109	110	70-157	
Benzene	ug/kg	49.7	49.8	100	70-130	
Bromobenzene	ug/kg	49.7	49.3	99	70-141	
Bromochloromethane	ug/kg	49.7	53.2	107	70-149	
Bromodichloromethane	ug/kg	49.7	55.2	111	70-130	
Bromoform	ug/kg	49.7	55.4	111	70-131	
Bromomethane	ug/kg	49.7	50.7	102	64-136	
Carbon tetrachloride	ug/kg	49.7	52.6	106	70-154	
Chlorobenzene	ug/kg	49.7	46.7	94	70-135	
Chloroethane	ug/kg	49.7	49.6	100	68-151	
Chloroform	ug/kg	49.7	57.7	116	70-130	
Chloromethane	ug/kg	49.7	46.9	94	70-132	
cis-1,2-Dichloroethene	ug/kg	49.7	52.8	106	70-140	
cis-1,3-Dichloropropene	ug/kg	49.7	50.1	101	70-137	
Dibromochloromethane	ug/kg	49.7	53.9	109	70-130	
Dibromomethane	ug/kg	49.7	51.4	103	70-136	
Dichlorodifluoromethane	ug/kg	49.7	54.9	110	36-148	
Diisopropyl ether	ug/kg	49.7	41.4	83	70-139	
Ethylbenzene	ug/kg	49.7	50.5	102	70-137	
Hexachloro-1,3-butadiene	ug/kg	49.7	46.0	92	70-145	
Isopropylbenzene (Cumene)	ug/kg	49.7	52.2	105	70-141	
m&p-Xylene	ug/kg	99.4	99.8	100	70-140	
Methyl-tert-butyl ether	ug/kg	49.7	41.5	84	45-150	
Methylene Chloride	ug/kg	49.7	51.5	104	70-133	
n-Butylbenzene	ug/kg	49.7	51.9	104	65-155	
n-Propylbenzene	ug/kg	49.7	50.5	102	70-148	
Naphthalene	ug/kg	49.7	49.1	99	70-148	
o-Xylene	ug/kg	49.7	49.9	100	70-141	
p-Isopropyltoluene	ug/kg	49.7	51.5	104	70-148	
sec-Butylbenzene	ug/kg	49.7	49.6	100	70-145	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	49.7	51.0	103	70-138	
tert-Butylbenzene	ug/kg	49.7	51.5	104	70-143	
Tetrachloroethene	ug/kg	49.7	50.2	101	70-140	
Toluene	ug/kg	49.7	50.7	102	70-130	
trans-1,2-Dichloroethene	ug/kg	49.7	51.9	104	70-136	
trans-1,3-Dichloropropene	ug/kg	49.7	49.4	99	70-138	
Trichloroethene	ug/kg	49.7	57.1	115	70-132	
Trichlorofluoromethane	ug/kg	49.7	54.8	110	69-134	
Vinyl acetate	ug/kg	99.4	28.2J	28	24-161	F3
Vinyl chloride	ug/kg	49.7	57.5	116	55-140	
Xylene (Total)	ug/kg	149	150	100	70-141	
1,2-Dichloroethane-d4 (S)	%			110	70-132	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1202383

Parameter	Units	92201696003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	42.7	39.0	91	49-180	
Benzene	ug/kg	ND	42.7	35.6	83	50-166	
Chlorobenzene	ug/kg	ND	42.7	34.8	81	43-169	
Toluene	ug/kg	ND	42.7	35.6	80	52-163	
Trichloroethene	ug/kg	ND	42.7	36.9	86	49-167	
1,2-Dichloroethane-d4 (S)	%				110	70-132	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1202670

Parameter	Units	92201696002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1202670

Parameter	Units	92201696002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
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		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1202670

Parameter	Units	92201696002 Result	Dup Result	RPD	Qualifiers
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	111	116	10	
4-Bromofluorobenzene (S)	%	98	98	5	
Toluene-d8 (S)	%	99	105	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MSV/26860 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021

METHOD BLANK: 1201942 Matrix: Solid
Associated Lab Samples: 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,1,1-Trichloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,1,2-Trichloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,1-Dichloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,1-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:01	
1,1-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:01	
1,2,3-Trichlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,2,3-Trichloropropane	ug/kg	ND	4.0	05/19/14 17:01	
1,2,4-Trichlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,2,4-Trimethylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.0	05/19/14 17:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.0	05/19/14 17:01	
1,2-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,2-Dichloroethane	ug/kg	ND	4.0	05/19/14 17:01	
1,2-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:01	
1,3,5-Trimethylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,3-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
1,3-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:01	
1,4-Dichlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
2,2-Dichloropropane	ug/kg	ND	4.0	05/19/14 17:01	
2-Butanone (MEK)	ug/kg	ND	80.4	05/19/14 17:01	
2-Chlorotoluene	ug/kg	ND	4.0	05/19/14 17:01	
2-Hexanone	ug/kg	ND	40.2	05/19/14 17:01	
4-Chlorotoluene	ug/kg	ND	4.0	05/19/14 17:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	40.2	05/19/14 17:01	
Acetone	ug/kg	ND	80.4	05/19/14 17:01	
Benzene	ug/kg	ND	4.0	05/19/14 17:01	
Bromobenzene	ug/kg	ND	4.0	05/19/14 17:01	
Bromochloromethane	ug/kg	ND	4.0	05/19/14 17:01	
Bromodichloromethane	ug/kg	ND	4.0	05/19/14 17:01	
Bromoform	ug/kg	ND	4.0	05/19/14 17:01	
Bromomethane	ug/kg	ND	8.0	05/19/14 17:01	
Carbon tetrachloride	ug/kg	ND	4.0	05/19/14 17:01	
Chlorobenzene	ug/kg	ND	4.0	05/19/14 17:01	
Chloroethane	ug/kg	ND	8.0	05/19/14 17:01	
Chloroform	ug/kg	ND	4.0	05/19/14 17:01	
Chloromethane	ug/kg	ND	8.0	05/19/14 17:01	
cis-1,2-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:01	
cis-1,3-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:01	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

METHOD BLANK: 1201942 Matrix: Solid

Associated Lab Samples: 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	4.0	05/19/14 17:01	
Dibromomethane	ug/kg	ND	4.0	05/19/14 17:01	
Dichlorodifluoromethane	ug/kg	ND	8.0	05/19/14 17:01	
Diisopropyl ether	ug/kg	ND	4.0	05/19/14 17:01	
Ethylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
Hexachloro-1,3-butadiene	ug/kg	ND	4.0	05/19/14 17:01	
Isopropylbenzene (Cumene)	ug/kg	ND	4.0	05/19/14 17:01	
m&p-Xylene	ug/kg	ND	8.0	05/19/14 17:01	
Methyl-tert-butyl ether	ug/kg	ND	4.0	05/19/14 17:01	
Methylene Chloride	ug/kg	ND	16.1	05/19/14 17:01	
n-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
n-Propylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
Naphthalene	ug/kg	ND	4.0	05/19/14 17:01	
o-Xylene	ug/kg	ND	4.0	05/19/14 17:01	
p-Isopropyltoluene	ug/kg	ND	4.0	05/19/14 17:01	
sec-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
Styrene	ug/kg	ND	4.0	05/19/14 17:01	
tert-Butylbenzene	ug/kg	ND	4.0	05/19/14 17:01	
Tetrachloroethene	ug/kg	ND	4.0	05/19/14 17:01	
Toluene	ug/kg	ND	4.0	05/19/14 17:01	
trans-1,2-Dichloroethene	ug/kg	ND	4.0	05/19/14 17:01	
trans-1,3-Dichloropropene	ug/kg	ND	4.0	05/19/14 17:01	
Trichloroethene	ug/kg	ND	4.0	05/19/14 17:01	
Trichlorofluoromethane	ug/kg	ND	4.0	05/19/14 17:01	
Vinyl acetate	ug/kg	ND	40.2	05/19/14 17:01	
Vinyl chloride	ug/kg	ND	8.0	05/19/14 17:01	
Xylene (Total)	ug/kg	ND	8.0	05/19/14 17:01	
1,2-Dichloroethane-d4 (S)	%	107	70-132	05/19/14 17:01	
4-Bromofluorobenzene (S)	%	97	70-130	05/19/14 17:01	
Toluene-d8 (S)	%	103	70-130	05/19/14 17:01	

LABORATORY CONTROL SAMPLE: 1201943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	47.8	49.2	103	70-131	
1,1,1-Trichloroethane	ug/kg	47.8	47.8	100	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	47.8	36.1	75	70-130	
1,1,2-Trichloroethane	ug/kg	47.8	45.5	95	70-132	
1,1-Dichloroethane	ug/kg	47.8	44.3	93	70-143	
1,1-Dichloroethene	ug/kg	47.8	47.5	99	70-137	
1,1-Dichloropropene	ug/kg	47.8	49.0	103	70-135	
1,2,3-Trichlorobenzene	ug/kg	47.8	43.4	91	69-153	
1,2,3-Trichloropropane	ug/kg	47.8	52.4	110	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	47.8	42.8	90	55-171	
1,2,4-Trimethylbenzene	ug/kg	47.8	52.5	110	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	47.8	45.2	95	68-141	
1,2-Dibromoethane (EDB)	ug/kg	47.8	47.8	100	70-130	
1,2-Dichlorobenzene	ug/kg	47.8	48.3	101	70-140	
1,2-Dichloroethane	ug/kg	47.8	48.6	102	70-137	
1,2-Dichloropropane	ug/kg	47.8	45.6	95	70-133	
1,3,5-Trimethylbenzene	ug/kg	47.8	52.2	109	70-143	
1,3-Dichlorobenzene	ug/kg	47.8	46.3	97	70-144	
1,3-Dichloropropane	ug/kg	47.8	46.3	97	70-132	
1,4-Dichlorobenzene	ug/kg	47.8	47.1	99	70-142	
2,2-Dichloropropane	ug/kg	47.8	47.8	100	68-152	
2-Butanone (MEK)	ug/kg	95.6	88.1J	92	70-149	
2-Chlorotoluene	ug/kg	47.8	47.6	100	70-141	
2-Hexanone	ug/kg	95.6	80.1	84	70-149	
4-Chlorotoluene	ug/kg	47.8	48.3	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	95.6	74.8	78	70-153	
Acetone	ug/kg	95.6	99.6	104	70-157	
Benzene	ug/kg	47.8	45.3	95	70-130	
Bromobenzene	ug/kg	47.8	48.2	101	70-141	
Bromochloromethane	ug/kg	47.8	49.5	104	70-149	
Bromodichloromethane	ug/kg	47.8	50.1	105	70-130	
Bromoform	ug/kg	47.8	54.7	114	70-131	
Bromomethane	ug/kg	47.8	46.8	98	64-136	
Carbon tetrachloride	ug/kg	47.8	48.6	102	70-154	
Chlorobenzene	ug/kg	47.8	45.4	95	70-135	
Chloroethane	ug/kg	47.8	45.2	95	68-151	
Chloroform	ug/kg	47.8	52.2	109	70-130	
Chloromethane	ug/kg	47.8	43.2	90	70-132	
cis-1,2-Dichloroethene	ug/kg	47.8	50.1	105	70-140	
cis-1,3-Dichloropropene	ug/kg	47.8	46.5	97	70-137	
Dibromochloromethane	ug/kg	47.8	50.3	105	70-130	
Dibromomethane	ug/kg	47.8	46.8	98	70-136	
Dichlorodifluoromethane	ug/kg	47.8	50.5	106	36-148	
Diisopropyl ether	ug/kg	47.8	39.0	82	70-139	
Ethylbenzene	ug/kg	47.8	50.1	105	70-137	
Hexachloro-1,3-butadiene	ug/kg	47.8	47.5	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	47.8	50.9	106	70-141	
m&p-Xylene	ug/kg	95.6	97.4	102	70-140	
Methyl-tert-butyl ether	ug/kg	47.8	39.8	83	45-150	
Methylene Chloride	ug/kg	47.8	45.5	95	70-133	
n-Butylbenzene	ug/kg	47.8	51.1	107	65-155	
n-Propylbenzene	ug/kg	47.8	50.1	105	70-148	
Naphthalene	ug/kg	47.8	45.3	95	70-148	
o-Xylene	ug/kg	47.8	48.6	102	70-141	
p-Isopropyltoluene	ug/kg	47.8	49.8	104	70-148	
sec-Butylbenzene	ug/kg	47.8	49.3	103	70-145	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	47.8	48.5	101	70-138	
tert-Butylbenzene	ug/kg	47.8	50.3	105	70-143	
Tetrachloroethene	ug/kg	47.8	49.7	104	70-140	
Toluene	ug/kg	47.8	47.8	100	70-130	
trans-1,2-Dichloroethene	ug/kg	47.8	47.4	99	70-136	
trans-1,3-Dichloropropene	ug/kg	47.8	46.1	97	70-138	
Trichloroethene	ug/kg	47.8	55.6	116	70-132	
Trichlorofluoromethane	ug/kg	47.8	50.9	107	69-134	
Vinyl acetate	ug/kg	95.6	19.9J	21	24-161	F3,L0
Vinyl chloride	ug/kg	47.8	51.1	107	55-140	
Xylene (Total)	ug/kg	143	146	102	70-141	
1,2-Dichloroethane-d4 (S)	%			107	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1202388

Parameter	Units	92201696012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	42	33.5	80	49-180	
Benzene	ug/kg	ND	42	29.5	70	50-166	
Chlorobenzene	ug/kg	ND	42	27.6	66	43-169	
Toluene	ug/kg	ND	42	29.6	70	52-163	
Trichloroethene	ug/kg	ND	42	30.9	74	49-167	
1,2-Dichloroethane-d4 (S)	%				112	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1202387

Parameter	Units	92201696011 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1202387

Parameter	Units	92201696011 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
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		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1202387

Parameter	Units	92201696011 Result	Dup Result	RPD	Qualifiers
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	110	113	20	
4-Bromofluorobenzene (S)	%	94	99	18	
Toluene-d8 (S)	%	98	103	18	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MSV/26866 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92201696023, 92201696024, 92201696025

METHOD BLANK: 1202081 Matrix: Solid
Associated Lab Samples: 92201696023, 92201696024, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,1,1-Trichloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,1,2-Trichloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,1-Dichloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,1-Dichloroethene	ug/kg	ND	5.1	05/19/14 14:33	
1,1-Dichloropropene	ug/kg	ND	5.1	05/19/14 14:33	
1,2,3-Trichlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,2,3-Trichloropropane	ug/kg	ND	5.1	05/19/14 14:33	
1,2,4-Trichlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,2,4-Trimethylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.1	05/19/14 14:33	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.1	05/19/14 14:33	
1,2-Dichlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,2-Dichloroethane	ug/kg	ND	5.1	05/19/14 14:33	
1,2-Dichloropropane	ug/kg	ND	5.1	05/19/14 14:33	
1,3,5-Trimethylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,3-Dichlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
1,3-Dichloropropane	ug/kg	ND	5.1	05/19/14 14:33	
1,4-Dichlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
2,2-Dichloropropane	ug/kg	ND	5.1	05/19/14 14:33	
2-Butanone (MEK)	ug/kg	ND	102	05/19/14 14:33	
2-Chlorotoluene	ug/kg	ND	5.1	05/19/14 14:33	
2-Hexanone	ug/kg	ND	51.0	05/19/14 14:33	
4-Chlorotoluene	ug/kg	ND	5.1	05/19/14 14:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	51.0	05/19/14 14:33	
Acetone	ug/kg	ND	102	05/19/14 14:33	
Benzene	ug/kg	ND	5.1	05/19/14 14:33	
Bromobenzene	ug/kg	ND	5.1	05/19/14 14:33	
Bromochloromethane	ug/kg	ND	5.1	05/19/14 14:33	
Bromodichloromethane	ug/kg	ND	5.1	05/19/14 14:33	
Bromoform	ug/kg	ND	5.1	05/19/14 14:33	
Bromomethane	ug/kg	ND	10.2	05/19/14 14:33	
Carbon tetrachloride	ug/kg	ND	5.1	05/19/14 14:33	
Chlorobenzene	ug/kg	ND	5.1	05/19/14 14:33	
Chloroethane	ug/kg	ND	10.2	05/19/14 14:33	
Chloroform	ug/kg	ND	5.1	05/19/14 14:33	
Chloromethane	ug/kg	ND	10.2	05/19/14 14:33	
cis-1,2-Dichloroethene	ug/kg	ND	5.1	05/19/14 14:33	
cis-1,3-Dichloropropene	ug/kg	ND	5.1	05/19/14 14:33	
Dibromochloromethane	ug/kg	ND	5.1	05/19/14 14:33	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

METHOD BLANK: 1202081 Matrix: Solid
Associated Lab Samples: 92201696023, 92201696024, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.1	05/19/14 14:33	
Dichlorodifluoromethane	ug/kg	ND	10.2	05/19/14 14:33	
Diisopropyl ether	ug/kg	ND	5.1	05/19/14 14:33	
Ethylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
Hexachloro-1,3-butadiene	ug/kg	ND	5.1	05/19/14 14:33	
Isopropylbenzene (Cumene)	ug/kg	ND	5.1	05/19/14 14:33	
m&p-Xylene	ug/kg	ND	10.2	05/19/14 14:33	
Methyl-tert-butyl ether	ug/kg	ND	5.1	05/19/14 14:33	
Methylene Chloride	ug/kg	ND	20.4	05/19/14 14:33	
n-Butylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
n-Propylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
Naphthalene	ug/kg	ND	5.1	05/19/14 14:33	
o-Xylene	ug/kg	ND	5.1	05/19/14 14:33	
p-Isopropyltoluene	ug/kg	ND	5.1	05/19/14 14:33	
sec-Butylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
Styrene	ug/kg	ND	5.1	05/19/14 14:33	
tert-Butylbenzene	ug/kg	ND	5.1	05/19/14 14:33	
Tetrachloroethene	ug/kg	ND	5.1	05/19/14 14:33	
Toluene	ug/kg	ND	5.1	05/19/14 14:33	
trans-1,2-Dichloroethene	ug/kg	ND	5.1	05/19/14 14:33	
trans-1,3-Dichloropropene	ug/kg	ND	5.1	05/19/14 14:33	
Trichloroethene	ug/kg	ND	5.1	05/19/14 14:33	
Trichlorofluoromethane	ug/kg	ND	5.1	05/19/14 14:33	
Vinyl acetate	ug/kg	ND	51.0	05/19/14 14:33	
Vinyl chloride	ug/kg	ND	10.2	05/19/14 14:33	
Xylene (Total)	ug/kg	ND	10.2	05/19/14 14:33	
1,2-Dichloroethane-d4 (S)	%	91	70-132	05/19/14 14:33	
4-Bromofluorobenzene (S)	%	108	70-130	05/19/14 14:33	
Toluene-d8 (S)	%	103	70-130	05/19/14 14:33	

LABORATORY CONTROL SAMPLE: 1202082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	43.4	45.6	105	70-131	
1,1,1-Trichloroethane	ug/kg	43.4	44.3	102	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	43.4	44.2	102	70-130	
1,1,2-Trichloroethane	ug/kg	43.4	52.8	122	70-132	
1,1-Dichloroethane	ug/kg	43.4	43.6	101	70-143	
1,1-Dichloroethene	ug/kg	43.4	44.3	102	70-137	
1,1-Dichloropropene	ug/kg	43.4	42.7	98	70-135	
1,2,3-Trichlorobenzene	ug/kg	43.4	57.8	133	69-153	
1,2,3-Trichloropropane	ug/kg	43.4	50.3	116	70-130	
1,2,4-Trichlorobenzene	ug/kg	43.4	55.5	128	55-171	
1,2,4-Trimethylbenzene	ug/kg	43.4	47.5	109	70-149	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1202082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	43.4	43.1	99	68-141	
1,2-Dibromoethane (EDB)	ug/kg	43.4	46.3	107	70-130	
1,2-Dichlorobenzene	ug/kg	43.4	51.1	118	70-140	
1,2-Dichloroethane	ug/kg	43.4	47.1	108	70-137	
1,2-Dichloropropane	ug/kg	43.4	49.5	114	70-133	
1,3,5-Trimethylbenzene	ug/kg	43.4	46.6	107	70-143	
1,3-Dichlorobenzene	ug/kg	43.4	49.4	114	70-144	
1,3-Dichloropropane	ug/kg	43.4	42.8	99	70-132	
1,4-Dichlorobenzene	ug/kg	43.4	51.7	119	70-142	
2,2-Dichloropropane	ug/kg	43.4	42.8	99	68-152	
2-Butanone (MEK)	ug/kg	86.8	92.8	107	70-149	
2-Chlorotoluene	ug/kg	43.4	43.9	101	70-141	
2-Hexanone	ug/kg	86.8	83.6	96	70-149	
4-Chlorotoluene	ug/kg	43.4	43.6	100	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	86.8	83.6	96	70-153	
Acetone	ug/kg	86.8	79.6J	92	70-157	
Benzene	ug/kg	43.4	45.5	105	70-130	
Bromobenzene	ug/kg	43.4	44.4	102	70-141	
Bromochloromethane	ug/kg	43.4	53.5	123	70-149	
Bromodichloromethane	ug/kg	43.4	49.3	114	70-130	
Bromoform	ug/kg	43.4	51.6	119	70-131	
Bromomethane	ug/kg	43.4	48.3	111	64-136	
Carbon tetrachloride	ug/kg	43.4	50.2	116	70-154	
Chlorobenzene	ug/kg	43.4	45.6	105	70-135	
Chloroethane	ug/kg	43.4	39.7	92	68-151	
Chloroform	ug/kg	43.4	50.0	115	70-130	
Chloromethane	ug/kg	43.4	34.1	78	70-132	
cis-1,2-Dichloroethene	ug/kg	43.4	45.9	106	70-140	
cis-1,3-Dichloropropene	ug/kg	43.4	48.9	113	70-137	
Dibromochloromethane	ug/kg	43.4	48.2	111	70-130	
Dibromomethane	ug/kg	43.4	58.1	134	70-136	
Dichlorodifluoromethane	ug/kg	43.4	39.2	90	36-148	
Diisopropyl ether	ug/kg	43.4	32.1	74	70-139	
Ethylbenzene	ug/kg	43.4	44.8	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	43.4	51.4	118	70-145	
Isopropylbenzene (Cumene)	ug/kg	43.4	46.7	107	70-141	
m&p-Xylene	ug/kg	86.8	87.9	101	70-140	
Methyl-tert-butyl ether	ug/kg	43.4	37.7	87	45-150	
Methylene Chloride	ug/kg	43.4	40.2	93	70-133	
n-Butylbenzene	ug/kg	43.4	45.8	106	65-155	
n-Propylbenzene	ug/kg	43.4	44.8	103	70-148	
Naphthalene	ug/kg	43.4	54.8	126	70-148	
o-Xylene	ug/kg	43.4	43.5	100	70-141	
p-Isopropyltoluene	ug/kg	43.4	47.0	108	70-148	
sec-Butylbenzene	ug/kg	43.4	45.2	104	70-145	
Styrene	ug/kg	43.4	49.5	114	70-138	
tert-Butylbenzene	ug/kg	43.4	46.8	108	70-143	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1202082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	43.4	52.6	121	70-140	
Toluene	ug/kg	43.4	47.2	109	70-130	
trans-1,2-Dichloroethene	ug/kg	43.4	45.5	105	70-136	
trans-1,3-Dichloropropene	ug/kg	43.4	49.4	114	70-138	
Trichloroethene	ug/kg	43.4	57.6	133	70-132	L0
Trichlorofluoromethane	ug/kg	43.4	40.1	92	69-134	
Vinyl acetate	ug/kg	86.8	60.1	69	24-161	F3
Vinyl chloride	ug/kg	43.4	45.7	105	55-140	
Xylene (Total)	ug/kg	130	131	101	70-141	
1,2-Dichloroethane-d4 (S)	%			94	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202083 1202084

Parameter	Units	92201830001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	46.3	49.6	51.2	54.3	111	110	70-130	6	
1,1,1-Trichloroethane	ug/kg	ND	46.3	49.6	45.4	53.4	98	108	70-130	16	
1,1,2,2-Tetrachloroethane	ug/kg	ND	46.3	49.6	51.8	58.0	112	117	70-130	11	
1,1,2-Trichloroethane	ug/kg	ND	46.3	49.6	56.3	60.8	122	123	70-130	8	
1,1-Dichloroethane	ug/kg	ND	46.3	49.6	48.1	50.7	104	102	70-130	5	
1,1-Dichloroethene	ug/kg	ND	46.3	49.6	50.6	56.6	109	114	49-180	11	
1,1-Dichloropropene	ug/kg	ND	46.3	49.6	46.7	49.9	101	101	70-130	7	
1,2,3-Trichlorobenzene	ug/kg	ND	46.3	49.6	49.6	52.8	105	104	70-130	6	
1,2,3-Trichloropropane	ug/kg	ND	46.3	49.6	52.1	61.9	113	125	70-130	17	
1,2,4-Trichlorobenzene	ug/kg	ND	46.3	49.6	49.4	52.8	107	106	70-130	7	
1,2,4-Trimethylbenzene	ug/kg	ND	46.3	49.6	53.4	53.6	115	108	70-130	0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	46.3	49.6	42.8	51.0	93	103	70-130	17	
1,2-Dibromoethane (EDB)	ug/kg	ND	46.3	49.6	50.2	54.6	108	110	70-130	8	
1,2-Dichlorobenzene	ug/kg	ND	46.3	49.6	54.2	56.7	117	114	70-130	5	
1,2-Dichloroethane	ug/kg	ND	46.3	49.6	51.0	54.5	110	110	70-130	7	
1,2-Dichloropropane	ug/kg	ND	46.3	49.6	54.6	61.1	118	123	70-130	11	
1,3,5-Trimethylbenzene	ug/kg	ND	46.3	49.6	52.4	53.0	113	107	70-130	1	
1,3-Dichlorobenzene	ug/kg	ND	46.3	49.6	53.8	54.8	116	111	70-130	2	
1,3-Dichloropropane	ug/kg	ND	46.3	49.6	46.8	52.7	101	106	70-130	12	
1,4-Dichlorobenzene	ug/kg	ND	46.3	49.6	55.2	57.5	119	116	70-130	4	
2,2-Dichloropropane	ug/kg	ND	46.3	49.6	44.5	49.0	96	99	70-130	10	
2-Butanone (MEK)	ug/kg	ND	92.5	99.1	87.3J	101	85	94	70-130		
2-Chlorotoluene	ug/kg	ND	46.3	49.6	49.1	50.1	106	101	70-130	2	
2-Hexanone	ug/kg	ND	92.5	99.1	89.3	107	96	108	70-130	18	
4-Chlorotoluene	ug/kg	ND	46.3	49.6	48.6	49.9	105	101	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	92.5	99.1	89.7	101	97	102	70-130	12	
Acetone	ug/kg	ND	92.5	99.1	93.7	101	74	76	70-130	7	
Benzene	ug/kg	ND	46.3	49.6	52.6	57.5	114	116	50-166	9	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202083 1202084

Parameter	Units	92201830001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromobenzene	ug/kg	ND	46.3	49.6	49.7	51.8	107	105	70-130	4	
Bromochloromethane	ug/kg	ND	46.3	49.6	52.9	59.7	114	120	70-130	12	
Bromodichloromethane	ug/kg	ND	46.3	49.6	53.8	60.8	116	123	70-130	12	
Bromoform	ug/kg	ND	46.3	49.6	53.7	60.6	116	122	70-130	12	
Bromomethane	ug/kg	ND	46.3	49.6	43.0	60.0	93	121	70-130	33	R1
Carbon tetrachloride	ug/kg	ND	46.3	49.6	51.3	63.1	111	127	70-130	21	
Chlorobenzene	ug/kg	ND	46.3	49.6	51.6	55.8	111	113	43-169	8	
Chloroethane	ug/kg	ND	46.3	49.6	47.0	53.0	102	107	70-130	12	
Chloroform	ug/kg	ND	46.3	49.6	47.9	57.8	104	117	70-130	19	
Chloromethane	ug/kg	ND	46.3	49.6	34.0	45.0	73	91	70-130	28	
cis-1,2-Dichloroethene	ug/kg	ND	46.3	49.6	51.3	56.0	111	113	70-130	9	
cis-1,3-Dichloropropene	ug/kg	ND	46.3	49.6	51.9	57.6	112	116	70-130	10	
Dibromochloromethane	ug/kg	ND	46.3	49.6	52.6	57.5	114	116	70-130	9	
Dibromomethane	ug/kg	ND	46.3	49.6	61.0	68.4	132	138	70-130	11	M1
Dichlorodifluoromethane	ug/kg	ND	46.3	49.6	47.5	47.7	103	96	70-130	1	
Diisopropyl ether	ug/kg	ND	46.3	49.6	34.9	38.0	75	77	70-130	9	
Ethylbenzene	ug/kg	ND	46.3	49.6	51.6	54.4	111	110	70-130	5	
Hexachloro-1,3-butadiene	ug/kg	ND	46.3	49.6	39.8	43.0	86	87	70-130	8	
Isopropylbenzene (Cumene)	ug/kg	ND	46.3	49.6	52.7	55.0	114	111	70-130	4	
m&p-Xylene	ug/kg	ND	92.5	99.1	101	106	109	107	70-130	5	
Methyl-tert-butyl ether	ug/kg	ND	46.3	49.6	38.6	43.1	83	87	70-130	11	
Methylene Chloride	ug/kg	ND	46.3	49.6	44.2	49.7	96	100	70-130	12	
n-Butylbenzene	ug/kg	ND	46.3	49.6	48.0	47.3	104	95	70-130	1	
n-Propylbenzene	ug/kg	ND	46.3	49.6	50.9	51.1	110	103	70-130	0	
Naphthalene	ug/kg	ND	46.3	49.6	49.9	56.7	103	110	70-130	13	
o-Xylene	ug/kg	ND	46.3	49.6	49.9	52.6	108	106	70-130	5	
p-Isopropyltoluene	ug/kg	ND	46.3	49.6	51.4	51.3	111	103	70-130	0	
sec-Butylbenzene	ug/kg	ND	46.3	49.6	49.6	49.5	107	100	70-130	0	
Styrene	ug/kg	ND	46.3	49.6	54.0	57.1	117	115	70-130	6	
tert-Butylbenzene	ug/kg	ND	46.3	49.6	52.1	52.4	113	106	70-130	0	
Tetrachloroethene	ug/kg	ND	46.3	49.6	62.2	63.7	134	129	70-130	2	M1
Toluene	ug/kg	ND	46.3	49.6	53.6	57.4	116	116	52-163	7	
trans-1,2-Dichloroethene	ug/kg	ND	46.3	49.6	49.9	56.9	108	115	70-130	13	
trans-1,3-Dichloropropene	ug/kg	ND	46.3	49.6	50.3	57.6	109	116	70-130	14	
Trichloroethene	ug/kg	ND	46.3	49.6	62.5	67.9	135	137	49-167	8	
Trichlorofluoromethane	ug/kg	ND	46.3	49.6	46.4	50.1	100	101	70-130	8	
Vinyl acetate	ug/kg	ND	92.5	99.1	71.4	55.5	77	56	70-130	25	M1
Vinyl chloride	ug/kg	ND	46.3	49.6	52.9	58.4	114	118	70-130	10	
1,2-Dichloroethane-d4 (S)	%						90	91	70-132		
4-Bromofluorobenzene (S)	%						101	107	70-130		
Toluene-d8 (S)	%						93	94	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202085 1202086

Parameter	Units	92201832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	47.3	51.7	54.0	55.4	114	107	70-130	3	
1,1,1-Trichloroethane	ug/kg	ND	47.3	51.7	51.8	58.1	110	112	70-130	12	
1,1,2,2-Tetrachloroethane	ug/kg	ND	47.3	51.7	52.9	54.5	112	105	70-130	3	
1,1,2-Trichloroethane	ug/kg	ND	47.3	51.7	59.5	63.6	126	123	70-130	7	
1,1-Dichloroethane	ug/kg	ND	47.3	51.7	51.8	55.8	110	108	70-130	8	
1,1-Dichloroethene	ug/kg	ND	47.3	51.7	53.1	63.7	112	123	49-180	18	
1,1-Dichloropropene	ug/kg	ND	47.3	51.7	50.5	52.2	107	101	70-130	3	
1,2,3-Trichlorobenzene	ug/kg	ND	47.3	51.7	58.1	43.5	120	82	70-130	29	
1,2,3-Trichloropropane	ug/kg	ND	47.3	51.7	56.2	59.0	119	114	70-130	5	
1,2,4-Trichlorobenzene	ug/kg	ND	47.3	51.7	58.3	44.3	121	84	70-130	27	
1,2,4-Trimethylbenzene	ug/kg	ND	47.3	51.7	55.5	57.5	117	111	70-130	4	
1,2-Dibromo-3-chloropropane	ug/kg	ND	47.3	51.7	49.2	55.1	104	107	70-130	11	
1,2-Dibromoethane (EDB)	ug/kg	ND	47.3	51.7	53.5	56.2	113	109	70-130	5	
1,2-Dichlorobenzene	ug/kg	ND	47.3	51.7	57.8	55.5	122	107	70-130	4	
1,2-Dichloroethane	ug/kg	ND	47.3	51.7	55.2	61.4	117	119	70-130	11	
1,2-Dichloropropane	ug/kg	ND	47.3	51.7	59.6	63.3	126	122	70-130	6	
1,3,5-Trimethylbenzene	ug/kg	ND	47.3	51.7	54.5	56.8	115	110	70-130	4	
1,3-Dichlorobenzene	ug/kg	ND	47.3	51.7	57.5	55.6	122	108	70-130	3	
1,3-Dichloropropane	ug/kg	ND	47.3	51.7	50.6	54.5	107	105	70-130	7	
1,4-Dichlorobenzene	ug/kg	ND	47.3	51.7	59.3	57.4	125	111	70-130	3	
2,2-Dichloropropane	ug/kg	ND	47.3	51.7	50.6	54.3	107	105	70-130	7	
2-Butanone (MEK)	ug/kg	ND	94.5	103	96.8	114	102	110	70-130	16	
2-Chlorotoluene	ug/kg	ND	47.3	51.7	51.3	54.9	108	106	70-130	7	
2-Hexanone	ug/kg	ND	94.5	103	94.9	112	100	108	70-130	16	
4-Chlorotoluene	ug/kg	ND	47.3	51.7	51.2	53.7	108	104	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	94.5	103	92.7	104	98	100	70-130	11	
Acetone	ug/kg	ND	94.5	103	95.2	116	101	112	70-130	20	
Benzene	ug/kg	ND	47.3	51.7	55.7	59.5	118	115	50-166	7	
Bromobenzene	ug/kg	ND	47.3	51.7	51.6	56.8	109	110	70-130	9	
Bromochloromethane	ug/kg	ND	47.3	51.7	58.6	68.8	124	133	70-130	16	M1
Bromodichloromethane	ug/kg	ND	47.3	51.7	59.6	62.9	126	122	70-130	5	
Bromoform	ug/kg	ND	47.3	51.7	59.4	59.5	126	115	70-130	0	
Bromomethane	ug/kg	ND	47.3	51.7	53.2	60.0	113	116	70-130	12	
Carbon tetrachloride	ug/kg	ND	47.3	51.7	61.9	64.6	131	125	70-130	4	M1
Chlorobenzene	ug/kg	ND	47.3	51.7	54.3	55.0	115	106	43-169	1	
Chloroethane	ug/kg	ND	47.3	51.7	51.8	59.9	110	116	70-130	14	
Chloroform	ug/kg	ND	47.3	51.7	53.6	67.0	113	130	70-130	22	
Chloromethane	ug/kg	ND	47.3	51.7	42.6	49.2	90	95	70-130	14	
cis-1,2-Dichloroethene	ug/kg	ND	47.3	51.7	53.5	61.0	113	118	70-130	13	
cis-1,3-Dichloropropene	ug/kg	ND	47.3	51.7	57.1	55.1	121	107	70-130	4	
Dibromochloromethane	ug/kg	ND	47.3	51.7	57.1	59.6	121	115	70-130	4	
Dibromomethane	ug/kg	ND	47.3	51.7	66.7	70.9	141	137	70-130	6	M1
Dichlorodifluoromethane	ug/kg	ND	47.3	51.7	47.9	55.8	101	108	70-130	15	
Diisopropyl ether	ug/kg	ND	47.3	51.7	37.9	40.3	80	78	70-130	6	
Ethylbenzene	ug/kg	ND	47.3	51.7	54.7	55.3	116	107	70-130	1	
Hexachloro-1,3-butadiene	ug/kg	ND	47.3	51.7	48.9	35.6	104	69	70-130	32	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202085 1202086

Parameter	Units	92201832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Isopropylbenzene (Cumene)	ug/kg	ND	47.3	51.7	56.4	53.6	119	104	70-130	5	
m&p-Xylene	ug/kg	ND	94.5	103	107	108	114	104	70-130	0	
Methyl-tert-butyl ether	ug/kg	ND	47.3	51.7	40.3	46.1	85	89	70-130	14	
Methylene Chloride	ug/kg	ND	47.3	51.7	49.0	56.0	104	108	70-130	13	
n-Butylbenzene	ug/kg	ND	47.3	51.7	52.3	47.0	111	91	70-130	11	
n-Propylbenzene	ug/kg	ND	47.3	51.7	53.2	55.7	113	108	70-130	4	
Naphthalene	ug/kg	ND	47.3	51.7	56.3	50.7	115	95	70-130	11	
o-Xylene	ug/kg	ND	47.3	51.7	52.5	53.2	111	103	70-130	1	
p-Isopropyltoluene	ug/kg	ND	47.3	51.7	54.6	53.8	116	104	70-130	1	
sec-Butylbenzene	ug/kg	ND	47.3	51.7	52.4	51.2	111	99	70-130	2	
Styrene	ug/kg	ND	47.3	51.7	57.4	55.5	122	107	70-130	3	
tert-Butylbenzene	ug/kg	ND	47.3	51.7	54.5	57.1	115	110	70-130	5	
Tetrachloroethene	ug/kg	ND	47.3	51.7	63.8	63.7	135	123	70-130	0	M1
Toluene	ug/kg	ND	47.3	51.7	56.5	59.3	119	115	52-163	5	
trans-1,2-Dichloroethene	ug/kg	ND	47.3	51.7	53.3	58.6	113	113	70-130	10	
trans-1,3-Dichloropropene	ug/kg	ND	47.3	51.7	56.3	55.8	119	108	70-130	1	
Trichloroethene	ug/kg	ND	47.3	51.7	67.0	69.9	142	135	49-167	4	
Trichlorofluoromethane	ug/kg	ND	47.3	51.7	49.5	54.6	105	106	70-130	10	
Vinyl acetate	ug/kg	ND	94.5	103	88.9	78.3	94	76	70-130	13	
Vinyl chloride	ug/kg	ND	47.3	51.7	56.0	64.1	118	124	70-130	14	
1,2-Dichloroethane-d4 (S)	%						92	95	70-132		
4-Bromofluorobenzene (S)	%						104	99	70-130		
Toluene-d8 (S)	%						96	95	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: MSV/26874
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92201696022

METHOD BLANK: 1202534
Matrix: Solid
Associated Lab Samples: 92201696022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,1,1-Trichloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,1,2-Trichloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,1-Dichloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,1-Dichloroethene	ug/kg	ND	4.5	05/20/14 12:10	
1,1-Dichloropropene	ug/kg	ND	4.5	05/20/14 12:10	
1,2,3-Trichlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,2,3-Trichloropropane	ug/kg	ND	4.5	05/20/14 12:10	
1,2,4-Trichlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,2,4-Trimethylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.5	05/20/14 12:10	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.5	05/20/14 12:10	
1,2-Dichlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,2-Dichloroethane	ug/kg	ND	4.5	05/20/14 12:10	
1,2-Dichloropropane	ug/kg	ND	4.5	05/20/14 12:10	
1,3,5-Trimethylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,3-Dichlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
1,3-Dichloropropane	ug/kg	ND	4.5	05/20/14 12:10	
1,4-Dichlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
2,2-Dichloropropane	ug/kg	ND	4.5	05/20/14 12:10	
2-Butanone (MEK)	ug/kg	ND	90.6	05/20/14 12:10	
2-Chlorotoluene	ug/kg	ND	4.5	05/20/14 12:10	
2-Hexanone	ug/kg	ND	45.3	05/20/14 12:10	
4-Chlorotoluene	ug/kg	ND	4.5	05/20/14 12:10	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	45.3	05/20/14 12:10	
Acetone	ug/kg	ND	90.6	05/20/14 12:10	
Benzene	ug/kg	ND	4.5	05/20/14 12:10	
Bromobenzene	ug/kg	ND	4.5	05/20/14 12:10	
Bromochloromethane	ug/kg	ND	4.5	05/20/14 12:10	
Bromodichloromethane	ug/kg	ND	4.5	05/20/14 12:10	
Bromoform	ug/kg	ND	4.5	05/20/14 12:10	
Bromomethane	ug/kg	ND	9.1	05/20/14 12:10	
Carbon tetrachloride	ug/kg	ND	4.5	05/20/14 12:10	
Chlorobenzene	ug/kg	ND	4.5	05/20/14 12:10	
Chloroethane	ug/kg	ND	9.1	05/20/14 12:10	
Chloroform	ug/kg	ND	4.5	05/20/14 12:10	
Chloromethane	ug/kg	ND	9.1	05/20/14 12:10	
cis-1,2-Dichloroethene	ug/kg	ND	4.5	05/20/14 12:10	
cis-1,3-Dichloropropene	ug/kg	ND	4.5	05/20/14 12:10	
Dibromochloromethane	ug/kg	ND	4.5	05/20/14 12:10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

METHOD BLANK: 1202534 Matrix: Solid
Associated Lab Samples: 92201696022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.5	05/20/14 12:10	
Dichlorodifluoromethane	ug/kg	ND	9.1	05/20/14 12:10	
Diisopropyl ether	ug/kg	ND	4.5	05/20/14 12:10	
Ethylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
Hexachloro-1,3-butadiene	ug/kg	ND	4.5	05/20/14 12:10	
Isopropylbenzene (Cumene)	ug/kg	ND	4.5	05/20/14 12:10	
m&p-Xylene	ug/kg	ND	9.1	05/20/14 12:10	
Methyl-tert-butyl ether	ug/kg	ND	4.5	05/20/14 12:10	
Methylene Chloride	ug/kg	ND	18.1	05/20/14 12:10	
n-Butylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
n-Propylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
Naphthalene	ug/kg	ND	4.5	05/20/14 12:10	
o-Xylene	ug/kg	ND	4.5	05/20/14 12:10	
p-Isopropyltoluene	ug/kg	ND	4.5	05/20/14 12:10	
sec-Butylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
Styrene	ug/kg	ND	4.5	05/20/14 12:10	
tert-Butylbenzene	ug/kg	ND	4.5	05/20/14 12:10	
Tetrachloroethene	ug/kg	ND	4.5	05/20/14 12:10	
Toluene	ug/kg	ND	4.5	05/20/14 12:10	
trans-1,2-Dichloroethene	ug/kg	ND	4.5	05/20/14 12:10	
trans-1,3-Dichloropropene	ug/kg	ND	4.5	05/20/14 12:10	
Trichloroethene	ug/kg	ND	4.5	05/20/14 12:10	
Trichlorofluoromethane	ug/kg	ND	4.5	05/20/14 12:10	
Vinyl acetate	ug/kg	ND	45.3	05/20/14 12:10	
Vinyl chloride	ug/kg	ND	9.1	05/20/14 12:10	
Xylene (Total)	ug/kg	ND	9.1	05/20/14 12:10	
1,2-Dichloroethane-d4 (S)	%	107	70-132	05/20/14 12:10	
4-Bromofluorobenzene (S)	%	99	70-130	05/20/14 12:10	
Toluene-d8 (S)	%	99	70-130	05/20/14 12:10	

LABORATORY CONTROL SAMPLE: 1202535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	44.8	47.4	106	70-131	
1,1,1-Trichloroethane	ug/kg	44.8	42.5	95	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	44.8	43.4	97	70-130	
1,1,2-Trichloroethane	ug/kg	44.8	43.0	96	70-132	
1,1-Dichloroethane	ug/kg	44.8	37.1	83	70-143	
1,1-Dichloroethene	ug/kg	44.8	40.1	89	70-137	
1,1-Dichloropropene	ug/kg	44.8	40.3	90	70-135	
1,2,3-Trichlorobenzene	ug/kg	44.8	42.7	95	69-153	
1,2,3-Trichloropropane	ug/kg	44.8	48.2	108	70-130	
1,2,4-Trichlorobenzene	ug/kg	44.8	42.7	95	55-171	
1,2,4-Trimethylbenzene	ug/kg	44.8	50.0	112	70-149	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1202535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	44.8	46.2	103	68-141	
1,2-Dibromoethane (EDB)	ug/kg	44.8	42.9	96	70-130	
1,2-Dichlorobenzene	ug/kg	44.8	45.2	101	70-140	
1,2-Dichloroethane	ug/kg	44.8	46.5	104	70-137	
1,2-Dichloropropane	ug/kg	44.8	39.4	88	70-133	
1,3,5-Trimethylbenzene	ug/kg	44.8	49.2	110	70-143	
1,3-Dichlorobenzene	ug/kg	44.8	45.1	101	70-144	
1,3-Dichloropropane	ug/kg	44.8	43.7	98	70-132	
1,4-Dichlorobenzene	ug/kg	44.8	45.7	102	70-142	
2,2-Dichloropropane	ug/kg	44.8	41.6	93	68-152	
2-Butanone (MEK)	ug/kg	89.6	71.1J	79	70-149	
2-Chlorotoluene	ug/kg	44.8	45.6	102	70-141	
2-Hexanone	ug/kg	89.6	73.5	82	70-149	
4-Chlorotoluene	ug/kg	44.8	46.1	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	89.6	74.2	83	70-153	
Acetone	ug/kg	89.6	93.2	104	70-157	
Benzene	ug/kg	44.8	40.6	91	70-130	
Bromobenzene	ug/kg	44.8	45.4	101	70-141	
Bromochloromethane	ug/kg	44.8	43.0	96	70-149	
Bromodichloromethane	ug/kg	44.8	47.6	106	70-130	
Bromoform	ug/kg	44.8	54.0	121	70-131	
Bromomethane	ug/kg	44.8	39.1	87	64-136	
Carbon tetrachloride	ug/kg	44.8	47.1	105	70-154	
Chlorobenzene	ug/kg	44.8	43.0	96	70-135	
Chloroethane	ug/kg	44.8	36.2	81	68-151	
Chloroform	ug/kg	44.8	45.9	102	70-130	
Chloromethane	ug/kg	44.8	36.5	81	70-132	
cis-1,2-Dichloroethene	ug/kg	44.8	41.3	92	70-140	
cis-1,3-Dichloropropene	ug/kg	44.8	42.6	95	70-137	
Dibromochloromethane	ug/kg	44.8	49.1	110	70-130	
Dibromomethane	ug/kg	44.8	44.6	100	70-136	
Dichlorodifluoromethane	ug/kg	44.8	45.6	102	36-148	
Diisopropyl ether	ug/kg	44.8	31.9	71	70-139	
Ethylbenzene	ug/kg	44.8	46.3	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	44.8	43.5	97	70-145	
Isopropylbenzene (Cumene)	ug/kg	44.8	47.3	105	70-141	
m&p-Xylene	ug/kg	89.6	93.2	104	70-140	
Methyl-tert-butyl ether	ug/kg	44.8	33.5	75	45-150	
Methylene Chloride	ug/kg	44.8	40.2	90	70-133	
n-Butylbenzene	ug/kg	44.8	49.2	110	65-155	
n-Propylbenzene	ug/kg	44.8	46.5	104	70-148	
Naphthalene	ug/kg	44.8	42.7	95	70-148	
o-Xylene	ug/kg	44.8	47.2	105	70-141	
p-Isopropyltoluene	ug/kg	44.8	47.2	105	70-148	
sec-Butylbenzene	ug/kg	44.8	44.7	100	70-145	
Styrene	ug/kg	44.8	46.1	103	70-138	
tert-Butylbenzene	ug/kg	44.8	46.8	104	70-143	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1202535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	44.8	46.5	104	70-140	
Toluene	ug/kg	44.8	43.7	97	70-130	
trans-1,2-Dichloroethene	ug/kg	44.8	40.1	89	70-136	
trans-1,3-Dichloropropene	ug/kg	44.8	45.3	101	70-138	
Trichloroethene	ug/kg	44.8	46.7	104	70-132	
Trichlorofluoromethane	ug/kg	44.8	45.6	102	69-134	
Vinyl acetate	ug/kg	89.6	37.7J	42	24-161	F3
Vinyl chloride	ug/kg	44.8	43.2	97	55-140	
Xylene (Total)	ug/kg	134	140	105	70-141	
1,2-Dichloroethane-d4 (S)	%			107	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1203338

Parameter	Units	92201855005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	59.9	57.7	96	49-180	
Benzene	ug/kg	ND	59.9	62.9	101	50-166	
Chlorobenzene	ug/kg	ND	59.9	59.9	100	43-169	
Toluene	ug/kg	ND	59.9	59.0	98	52-163	
Trichloroethene	ug/kg	ND	59.9	58.6	98	49-167	
1,2-Dichloroethane-d4 (S)	%				122	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1203337

Parameter	Units	92201855003 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1203337

Parameter	Units	92201855003 Result	Dup Result	RPD	Qualifiers
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	17.8J		
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	16.9J		
Acetone	ug/kg	200	317	45	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	27.9	51.7	60	
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		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

SAMPLE DUPLICATE: 1203337

Parameter	Units	92201855003 Result	Dup Result	RPD	Qualifiers
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)	%	134	119	3	
4-Bromofluorobenzene (S)	%	104	104	15	
Toluene-d8 (S)	%	104	98	9	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: OEXT/27732 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

METHOD BLANK: 1201280 Matrix: Solid
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	05/20/14 19:01	
n-Pentacosane (S)	%	82	41-119	05/20/14 19:01	

LABORATORY CONTROL SAMPLE: 1201281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	57.0	85	49-113	
n-Pentacosane (S)	%			77	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201282 1201283

Parameter	Units	92201753001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	36.8	92.8	92.8	86.8	96.9	54	65	10-146	11	
n-Pentacosane (S)	%						74	80	41-119		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: OEXT/27755 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

METHOD BLANK: 1201804 Matrix: Solid
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	05/23/14 15:30	
1,2-Dichlorobenzene	ug/kg	ND	330	05/23/14 15:30	
1,3-Dichlorobenzene	ug/kg	ND	330	05/23/14 15:30	
1,4-Dichlorobenzene	ug/kg	ND	330	05/23/14 15:30	
1-Methylnaphthalene	ug/kg	ND	330	05/23/14 15:30	
2,4,5-Trichlorophenol	ug/kg	ND	330	05/23/14 15:30	
2,4,6-Trichlorophenol	ug/kg	ND	330	05/23/14 15:30	
2,4-Dichlorophenol	ug/kg	ND	330	05/23/14 15:30	
2,4-Dimethylphenol	ug/kg	ND	330	05/23/14 15:30	
2,4-Dinitrophenol	ug/kg	ND	1650	05/23/14 15:30	
2,4-Dinitrotoluene	ug/kg	ND	330	05/23/14 15:30	
2,6-Dinitrotoluene	ug/kg	ND	330	05/23/14 15:30	
2-Chloronaphthalene	ug/kg	ND	330	05/23/14 15:30	
2-Chlorophenol	ug/kg	ND	330	05/23/14 15:30	
2-Methylnaphthalene	ug/kg	ND	330	05/23/14 15:30	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	05/23/14 15:30	
2-Nitroaniline	ug/kg	ND	1650	05/23/14 15:30	
2-Nitrophenol	ug/kg	ND	330	05/23/14 15:30	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	05/23/14 15:30	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	05/23/14 15:30	
3-Nitroaniline	ug/kg	ND	1650	05/23/14 15:30	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	05/23/14 15:30	
4-Bromophenylphenyl ether	ug/kg	ND	330	05/23/14 15:30	
4-Chloro-3-methylphenol	ug/kg	ND	660	05/23/14 15:30	
4-Chloroaniline	ug/kg	ND	1650	05/23/14 15:30	
4-Chlorophenylphenyl ether	ug/kg	ND	330	05/23/14 15:30	
4-Nitroaniline	ug/kg	ND	660	05/23/14 15:30	
4-Nitrophenol	ug/kg	ND	1650	05/23/14 15:30	
Acenaphthene	ug/kg	ND	330	05/23/14 15:30	
Acenaphthylene	ug/kg	ND	330	05/23/14 15:30	
Aniline	ug/kg	ND	330	05/23/14 15:30	
Anthracene	ug/kg	ND	330	05/23/14 15:30	
Benzo(a)anthracene	ug/kg	ND	330	05/23/14 15:30	
Benzo(a)pyrene	ug/kg	ND	330	05/23/14 15:30	
Benzo(b)fluoranthene	ug/kg	ND	330	05/23/14 15:30	
Benzo(g,h,i)perylene	ug/kg	ND	330	05/23/14 15:30	
Benzo(k)fluoranthene	ug/kg	ND	330	05/23/14 15:30	
Benzoic Acid	ug/kg	ND	1650	05/23/14 15:30	
Benzyl alcohol	ug/kg	ND	660	05/23/14 15:30	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	05/23/14 15:30	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

METHOD BLANK: 1201804 Matrix: Solid

Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	330	05/23/14 15:30	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	05/23/14 15:30	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	05/23/14 15:30	
Butylbenzylphthalate	ug/kg	ND	330	05/23/14 15:30	
Chrysene	ug/kg	ND	330	05/23/14 15:30	
Di-n-butylphthalate	ug/kg	ND	330	05/23/14 15:30	
Di-n-octylphthalate	ug/kg	ND	330	05/23/14 15:30	
Dibenz(a,h)anthracene	ug/kg	ND	330	05/23/14 15:30	
Dibenzofuran	ug/kg	ND	330	05/23/14 15:30	
Diethylphthalate	ug/kg	ND	330	05/23/14 15:30	
Dimethylphthalate	ug/kg	ND	330	05/23/14 15:30	
Fluoranthene	ug/kg	ND	330	05/23/14 15:30	
Fluorene	ug/kg	ND	330	05/23/14 15:30	
Hexachloro-1,3-butadiene	ug/kg	ND	330	05/23/14 15:30	
Hexachlorobenzene	ug/kg	ND	330	05/23/14 15:30	
Hexachlorocyclopentadiene	ug/kg	ND	330	05/23/14 15:30	
Hexachloroethane	ug/kg	ND	330	05/23/14 15:30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	05/23/14 15:30	
Isophorone	ug/kg	ND	330	05/23/14 15:30	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	05/23/14 15:30	
N-Nitrosodimethylamine	ug/kg	ND	330	05/23/14 15:30	
N-Nitrosodiphenylamine	ug/kg	ND	330	05/23/14 15:30	
Naphthalene	ug/kg	ND	330	05/23/14 15:30	
Nitrobenzene	ug/kg	ND	330	05/23/14 15:30	
Pentachlorophenol	ug/kg	ND	1650	05/23/14 15:30	
Phenanthrene	ug/kg	ND	330	05/23/14 15:30	
Phenol	ug/kg	ND	330	05/23/14 15:30	
Pyrene	ug/kg	ND	330	05/23/14 15:30	
2,4,6-Tribromophenol (S)	%	73	27-110	05/23/14 15:30	
2-Fluorobiphenyl (S)	%	68	30-110	05/23/14 15:30	
2-Fluorophenol (S)	%	60	13-110	05/23/14 15:30	
Nitrobenzene-d5 (S)	%	59	23-110	05/23/14 15:30	
Phenol-d6 (S)	%	64	22-110	05/23/14 15:30	
Terphenyl-d14 (S)	%	78	28-110	05/23/14 15:30	

LABORATORY CONTROL SAMPLE: 1201805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1270	76	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1260	76	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1210	73	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1270	76	35-110	
1-Methylnaphthalene	ug/kg	1670	1340	80	45-105	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/kg	1670	1340	81	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1240	74	45-111	
2,4-Dichlorophenol	ug/kg	1670	1400	84	51-116	
2,4-Dimethylphenol	ug/kg	1670	1330	80	42-103	
2,4-Dinitrophenol	ug/kg	8330	6010	72	28-103	
2,4-Dinitrotoluene	ug/kg	1670	1480	89	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1460	88	48-112	
2-Chloronaphthalene	ug/kg	1670	1270	76	44-105	
2-Chlorophenol	ug/kg	1670	1340	80	36-110	
2-Methylnaphthalene	ug/kg	1670	1380	83	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1410	85	39-101	
2-Nitroaniline	ug/kg	3330	2690	81	44-111	
2-Nitrophenol	ug/kg	1670	1270	76	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1440	86	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2290	69	10-150	
3-Nitroaniline	ug/kg	3330	2760	83	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2750	82	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1340	80	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2980	89	43-127	
4-Chloroaniline	ug/kg	3330	2880	86	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1330	80	44-115	
4-Nitroaniline	ug/kg	3330	2750	82	37-111	
4-Nitrophenol	ug/kg	8330	6190	74	21-152	
Acenaphthene	ug/kg	1670	1240	75	38-117	
Acenaphthylene	ug/kg	1670	1260	76	46-107	
Aniline	ug/kg	1670	1150	69	29-110	
Anthracene	ug/kg	1670	1280	77	50-110	
Benzo(a)anthracene	ug/kg	1670	1270	76	47-116	
Benzo(a)pyrene	ug/kg	1670	1310	79	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1240	74	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1210	72	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1310	79	45-117	
Benzoic Acid	ug/kg	8330	5270	63	16-110	
Benzyl alcohol	ug/kg	3330	2950	89	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1160	70	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1150	69	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1040	63	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1220	73	35-116	
Butylbenzylphthalate	ug/kg	1670	1210	73	38-110	
Chrysene	ug/kg	1670	1310	79	49-110	
Di-n-butylphthalate	ug/kg	1670	1200	72	43-109	
Di-n-octylphthalate	ug/kg	1670	1060	64	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1240	75	43-116	
Dibenzofuran	ug/kg	1670	1400	84	45-106	
Diethylphthalate	ug/kg	1670	1240	74	41-114	
Dimethylphthalate	ug/kg	1670	1260	75	43-110	
Fluoranthene	ug/kg	1670	1250	75	50-114	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

LABORATORY CONTROL SAMPLE: 1201805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1670	1320	79	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1250	75	28-111	
Hexachlorobenzene	ug/kg	1670	1400	84	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	1240	75	18-119	
Hexachloroethane	ug/kg	1670	1190	71	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	959	58	42-115	
Isophorone	ug/kg	1670	1350	81	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1110	66	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1010	61	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1110	66	48-113	
Naphthalene	ug/kg	1670	1230	74	41-110	
Nitrobenzene	ug/kg	1670	1280	77	38-110	
Pentachlorophenol	ug/kg	3330	2300	69	32-128	
Phenanthrene	ug/kg	1670	1270	76	50-110	
Phenol	ug/kg	1670	1470	88	28-106	
Pyrene	ug/kg	1670	1320	79	45-114	
2,4,6-Tribromophenol (S)	%			93	27-110	
2-Fluorobiphenyl (S)	%			78	30-110	
2-Fluorophenol (S)	%			74	13-110	
Nitrobenzene-d5 (S)	%			69	23-110	
Phenol-d6 (S)	%			83	22-110	
Terphenyl-d14 (S)	%			86	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201806 1201807

Parameter	Units	92201696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	ND	1820	1820	1290	1240	71	68	18-119	4	
1,2-Dichlorobenzene	ug/kg	ND	1820	1820	1310	1270	72	70	50-110	2	
1,3-Dichlorobenzene	ug/kg	ND	1820	1820	1260	1230	69	68	27-110	3	
1,4-Dichlorobenzene	ug/kg	ND	1820	1820	1310	1260	72	70	28-110	4	
1-Methylnaphthalene	ug/kg	ND	1820	1820	1310	1260	72	70	24-116	4	
2,4,5-Trichlorophenol	ug/kg	ND	1820	1820	1330	1310	73	72	28-110	1	
2,4,6-Trichlorophenol	ug/kg	ND	1820	1820	1240	1180	68	65	17-117	5	
2,4-Dichlorophenol	ug/kg	ND	1820	1820	1410	1340	78	74	21-128	5	
2,4-Dimethylphenol	ug/kg	ND	1820	1820	1380	1310	76	72	10-120	5	
2,4-Dinitrophenol	ug/kg	ND	9070	9070	5760	5730	63	63	10-107	0	
2,4-Dinitrotoluene	ug/kg	ND	1820	1820	1420	1390	78	77	36-109	1	
2,6-Dinitrotoluene	ug/kg	ND	1820	1820	1410	1390	78	77	32-110	1	
2-Chloronaphthalene	ug/kg	ND	1820	1820	1290	1230	71	68	30-107	4	
2-Chlorophenol	ug/kg	ND	1820	1820	1380	1280	76	71	14-106	7	
2-Methylnaphthalene	ug/kg	ND	1820	1820	1350	1300	75	71	10-135	4	
2-Methylphenol(o-Cresol)	ug/kg	ND	1820	1820	1380	1360	76	75	10-124	2	
2-Nitroaniline	ug/kg	ND	3620	3620	2640	2600	73	72	26-116	2	
2-Nitrophenol	ug/kg	ND	1820	1820	1280	1220	71	67	28-103	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201806 1201807

Parameter	Units	92201696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1820	1820	1410	1390	78	77	10-109	1	
3,3'-Dichlorobenzidine	ug/kg	ND	3620	3620	2300	2320	63	64	10-150	1	
3-Nitroaniline	ug/kg	ND	3620	3620	2690	2670	74	74	22-110	1	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3620	3620	2750	2690	76	74	13-121	2	
4-Bromophenylphenyl ether	ug/kg	ND	1820	1820	1290	1270	71	70	31-109	1	
4-Chloro-3-methylphenol	ug/kg	ND	3620	3620	2850	2830	78	78	13-128	1	
4-Chloroaniline	ug/kg	ND	3620	3620	2810	2710	77	75	18-102	3	
4-Chlorophenylphenyl ether	ug/kg	ND	1820	1820	1270	1240	70	68	29-112	3	
4-Nitroaniline	ug/kg	ND	3620	3620	2670	2670	73	74	16-111	0	
4-Nitrophenol	ug/kg	ND	9070	9070	5920	5910	65	65	14-135	0	
Acenaphthene	ug/kg	ND	1820	1820	1210	1180	67	65	26-114	2	
Acenaphthylene	ug/kg	ND	1820	1820	1240	1200	68	66	32-108	3	
Aniline	ug/kg	ND	1820	1820	1100	1080	61	59	10-107	2	
Anthracene	ug/kg	ND	1820	1820	1260	1240	70	68	32-111	2	
Benzo(a)anthracene	ug/kg	ND	1820	1820	1220	1200	67	66	25-117	1	
Benzo(a)pyrene	ug/kg	ND	1820	1820	1270	1250	70	69	25-106	1	
Benzo(b)fluoranthene	ug/kg	ND	1820	1820	1230	1190	68	66	24-110	3	
Benzo(g,h,i)perylene	ug/kg	ND	1820	1820	1130	1220	62	67	19-112	7	
Benzo(k)fluoranthene	ug/kg	ND	1820	1820	1220	1220	68	67	24-114	0	
Benzoic Acid	ug/kg	ND	9070	9070	4390	4770	48	53	10-110	8	
Benzyl alcohol	ug/kg	ND	3620	3620	2870	2800	79	77	24-106	3	
bis(2-Chloroethoxy)methane	ug/kg	ND	1820	1820	1170	1120	65	62	13-119	4	
bis(2-Chloroethyl) ether	ug/kg	ND	1820	1820	1180	1120	65	62	10-134	5	
bis(2-Chloroisopropyl) ether	ug/kg	ND	1820	1820	1050	1010	58	56	10-113	3	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1820	1820	1170	1140	65	63	10-125	3	
Butylbenzylphthalate	ug/kg	ND	1820	1820	1180	1150	65	63	18-110	3	
Chrysene	ug/kg	ND	1820	1820	1240	1240	69	68	30-110	1	
Di-n-butylphthalate	ug/kg	ND	1820	1820	1170	1150	65	63	19-112	2	
Di-n-octylphthalate	ug/kg	ND	1820	1820	1030	1020	57	56	17-105	1	
Dibenz(a,h)anthracene	ug/kg	ND	1820	1820	1160	1260	64	69	23-111	8	
Dibenzofuran	ug/kg	ND	1820	1820	1360	1340	75	74	35-103	1	
Diethylphthalate	ug/kg	ND	1820	1820	1190	1190	66	65	27-113	1	
Dimethylphthalate	ug/kg	ND	1820	1820	1220	1190	68	66	26-111	3	
Fluoranthene	ug/kg	ND	1820	1820	1240	1230	68	68	33-109	1	
Fluorene	ug/kg	ND	1820	1820	1270	1260	70	70	32-113	0	
Hexachloro-1,3-butadiene	ug/kg	ND	1820	1820	1260	1200	70	66	16-116	5	
Hexachlorobenzene	ug/kg	ND	1820	1820	1400	1370	77	75	27-120	3	
Hexachlorocyclopentadiene	ug/kg	ND	1820	1820	1230	1170	68	65	10-108	4	
Hexachloroethane	ug/kg	ND	1820	1820	1240	1190	68	66	10-117	4	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1820	1820	906	957	50	53	10-122	6	
Isophorone	ug/kg	ND	1820	1820	1330	1280	74	70	28-114	4	
N-Nitroso-di-n-propylamine	ug/kg	ND	1820	1820	1070	1040	59	57	27-113	2	
N-Nitrosodimethylamine	ug/kg	ND	1820	1820	1030	995	57	55	10-109	3	
N-Nitrosodiphenylamine	ug/kg	ND	1820	1820	1120	1090	62	60	10-128	2	
Naphthalene	ug/kg	ND	1820	1820	1240	1190	68	66	25-110	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201806 1201807

Parameter	Units	92201696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrobenzene	ug/kg	ND	1820	1820	1300	1230	72	68	18-114	6	
Pentachlorophenol	ug/kg	ND	3620	3620	2440	2350	67	65	10-122	4	
Phenanthrene	ug/kg	ND	1820	1820	1260	1220	70	67	30-114	3	
Phenol	ug/kg	ND	1820	1820	1430	1380	79	76	11-102	4	
Pyrene	ug/kg	ND	1820	1820	1270	1240	70	69	25-116	2	
2,4,6-Tribromophenol (S)	%						86	84	27-110		
2-Fluorobiphenyl (S)	%						70	67	30-110		
2-Fluorophenol (S)	%						68	65	13-110		
Nitrobenzene-d5 (S)	%						64	61	23-110		
Phenol-d6 (S)	%						73	70	22-110		
Terphenyl-d14 (S)	%						69	68	28-110		

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: OEXT/27754 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

METHOD BLANK: 1201798 Matrix: Solid
Associated Lab Samples: 92201696002, 92201696004, 92201696006, 92201696007, 92201696009, 92201696011, 92201696013, 92201696015, 92201696017, 92201696018, 92201696020, 92201696023, 92201696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	05/20/14 07:53	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	05/20/14 07:53	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	05/20/14 06:16	N2
2-Bromonaphthalene (S)	%	92	40-140	05/20/14 06:16	
2-Fluorobiphenyl (S)	%	79	40-140	05/20/14 06:16	
Nonatriacontane (S)	%	86	40-140	05/20/14 07:53	
o-Terphenyl (S)	%	77	40-140	05/20/14 06:16	

LABORATORY CONTROL SAMPLE & LCSD: 1201799 1201800

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	78	88	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.3	12.1	13.5	91	101	40-140	11	50	N2
Aromatic (C11-C22)	mg/kg	28.3	19.7	18.3	70	65	40-140	8	50	N2
2-Bromonaphthalene (S)	%				79	74	40-140			
2-Fluorobiphenyl (S)	%				77	67	40-140			
Nonatriacontane (S)	%				85	89	40-140			
o-Terphenyl (S)	%				75	71	40-140			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: PMST/6581 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92201696001, 92201696002, 92201696003, 92201696004

SAMPLE DUPLICATE: 1202318

Parameter	Units	92201923001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.7	21.1	3	

SAMPLE DUPLICATE: 1202319

Parameter	Units	92201696004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	12.9	13.3	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: PMST/6582 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92201696005, 92201696006, 92201696007, 92201696008, 92201696009, 92201696010, 92201696011, 92201696012, 92201696013, 92201696014, 92201696015, 92201696016, 92201696017, 92201696018, 92201696019, 92201696020, 92201696021, 92201696022, 92201696023, 92201696024

SAMPLE DUPLICATE: 1202320

Parameter	Units	92201696005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.7	9.1	25	

SAMPLE DUPLICATE: 1202321

Parameter	Units	92201696024 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.1	10.3	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

QC Batch: PMST/6585
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92201696025

SAMPLE DUPLICATE: 1202662

Parameter	Units	92201267003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.4	30.4	35	R1

SAMPLE DUPLICATE: 1202663

Parameter	Units	92201832001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.4	19.1	1	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

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.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92201696002	**B-18-01A (5-7 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696004	**B-18-02A (4-5 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696006	**B-18-03A (4-5 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696007	**B-18-04A (1-3 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696009	**B-18-05 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696011	**B-18-06 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696013	**B-18-07 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696015	**B-18-08 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696017	**Dup-1**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696018	**B-18-09 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696020	**B-18-10 (1-2 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696023	**B-18-11 (5-7 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696025	**B-18-12 (5-7 ft)**	EPA 3546	OEXT/27732	EPA 8015 Modified	GCSV/17641
92201696002	**B-18-01A (5-7 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696004	**B-18-02A (4-5 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696006	**B-18-03A (4-5 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696007	**B-18-04A (1-3 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696009	**B-18-05 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696011	**B-18-06 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696013	**B-18-07 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696015	**B-18-08 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696017	**Dup-1**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696018	**B-18-09 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696020	**B-18-10 (1-2 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696023	**B-18-11 (5-7 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696025	**B-18-12 (5-7 ft)**	MADEP EPH	OEXT/27754	MADEP EPH	GCSV/17651
92201696002	**B-18-01A (5-7 ft)**	EPA 5035A/5030B	GCV/8131	EPA 8015 Modified	GCV/8133
92201696004	**B-18-02A (4-5 ft)**	EPA 5035A/5030B	GCV/8131	EPA 8015 Modified	GCV/8133
92201696006	**B-18-03A (4-5 ft)**	EPA 5035A/5030B	GCV/8131	EPA 8015 Modified	GCV/8133
92201696007	**B-18-04A (1-3 ft)**	EPA 5035A/5030B	GCV/8131	EPA 8015 Modified	GCV/8133
92201696009	**B-18-05 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696011	**B-18-06 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696013	**B-18-07 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696015	**B-18-08 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696017	**Dup-1**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696018	**B-18-09 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696020	**B-18-10 (1-2 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696023	**B-18-11 (5-7 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696025	**B-18-12 (5-7 ft)**	EPA 5035A/5030B	GCV/8139	EPA 8015 Modified	GCV/8141
92201696001	**B-18-01A (1-3 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696002	**B-18-01A (5-7 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696003	**B-18-02A (1-2 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696004	**B-18-02A (4-5 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696005	**B-18-03A (1-2 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696006	**B-18-03A (4-5 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696007	**B-18-04A (1-3 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92201696008	**B-18-04A (5-7 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696009	**B-18-05 (1-2 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696010	**B-18-05 (4-5 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696011	**B-18-06 (1-2 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696012	**B-18-06 (4-5 ft)**	MADEP VPH	GCV/8096	MADEP VPH	GCV/8107
92201696013	**B-18-07 (1-2 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696014	**B-18-07 (4-5 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696015	**B-18-08 (1-2 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696016	**B-18-08 (4-5 ft)**	MADEP VPH	GCV/8095	MADEP VPH	GCV/8098
92201696017	**Dup-1**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696018	**B-18-09 (1-2 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696019	**B-18-09 (4-5 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696020	**B-18-10 (1-2 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696021	**B-18-10 (4-5 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696022	**B-18-11 (1-3 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696023	**B-18-11 (5-7 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696024	**B-18-12 (1-3 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696025	**B-18-12 (5-7 ft)**	MADEP VPH	GCV/8112	MADEP VPH	GCV/8114
92201696001	**B-18-01A (1-3 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696002	**B-18-01A (5-7 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696003	**B-18-02A (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696004	**B-18-02A (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696005	**B-18-03A (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696006	**B-18-03A (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696007	**B-18-04A (1-3 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696008	**B-18-04A (5-7 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696009	**B-18-05 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696010	**B-18-05 (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696011	**B-18-06 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696012	**B-18-06 (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696013	**B-18-07 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696014	**B-18-07 (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696015	**B-18-08 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696016	**B-18-08 (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696017	**Dup-1**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696018	**B-18-09 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696019	**B-18-09 (4-5 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696020	**B-18-10 (1-2 ft)**	EPA 3050	MPRP/16021	EPA 6010	ICP/14487
92201696021	**B-18-10 (4-5 ft)**	EPA 3050	MPRP/16030	EPA 6010	ICP/14494
92201696022	**B-18-11 (1-3 ft)**	EPA 3050	MPRP/16030	EPA 6010	ICP/14494
92201696023	**B-18-11 (5-7 ft)**	EPA 3050	MPRP/16030	EPA 6010	ICP/14494
92201696024	**B-18-12 (1-3 ft)**	EPA 3050	MPRP/16030	EPA 6010	ICP/14494
92201696025	**B-18-12 (5-7 ft)**	EPA 3050	MPRP/16030	EPA 6010	ICP/14494
92201696002	**B-18-01A (5-7 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696004	**B-18-02A (4-5 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696006	**B-18-03A (4-5 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92201696007	**B-18-04A (1-3 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696009	**B-18-05 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696011	**B-18-06 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696013	**B-18-07 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696015	**B-18-08 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696017	**Dup-1**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696018	**B-18-09 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696020	**B-18-10 (1-2 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696023	**B-18-11 (5-7 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696025	**B-18-12 (5-7 ft)**	EPA 3546	OEXT/27755	EPA 8270	MSSV/9152
92201696001	**B-18-01A (1-3 ft)**	EPA 8260	MSV/26859		
92201696002	**B-18-01A (5-7 ft)**	EPA 8260	MSV/26859		
92201696003	**B-18-02A (1-2 ft)**	EPA 8260	MSV/26859		
92201696004	**B-18-02A (4-5 ft)**	EPA 8260	MSV/26859		
92201696005	**B-18-03A (1-2 ft)**	EPA 8260	MSV/26859		
92201696006	**B-18-03A (4-5 ft)**	EPA 8260	MSV/26859		
92201696007	**B-18-04A (1-3 ft)**	EPA 8260	MSV/26859		
92201696008	**B-18-04A (5-7 ft)**	EPA 8260	MSV/26859		
92201696009	**B-18-05 (1-2 ft)**	EPA 8260	MSV/26859		
92201696010	**B-18-05 (4-5 ft)**	EPA 8260	MSV/26859		
92201696011	**B-18-06 (1-2 ft)**	EPA 8260	MSV/26860		
92201696012	**B-18-06 (4-5 ft)**	EPA 8260	MSV/26860		
92201696013	**B-18-07 (1-2 ft)**	EPA 8260	MSV/26860		
92201696014	**B-18-07 (4-5 ft)**	EPA 8260	MSV/26860		
92201696015	**B-18-08 (1-2 ft)**	EPA 8260	MSV/26860		
92201696016	**B-18-08 (4-5 ft)**	EPA 8260	MSV/26860		
92201696017	**Dup-1**	EPA 8260	MSV/26860		
92201696018	**B-18-09 (1-2 ft)**	EPA 8260	MSV/26860		
92201696019	**B-18-09 (4-5 ft)**	EPA 8260	MSV/26860		
92201696020	**B-18-10 (1-2 ft)**	EPA 8260	MSV/26860		
92201696021	**B-18-10 (4-5 ft)**	EPA 8260	MSV/26860		
92201696022	**B-18-11 (1-3 ft)**	EPA 8260	MSV/26874		
92201696023	**B-18-11 (5-7 ft)**	EPA 8260	MSV/26866		
92201696024	**B-18-12 (1-3 ft)**	EPA 8260	MSV/26866		
92201696025	**B-18-12 (5-7 ft)**	EPA 8260	MSV/26866		
92201696001	**B-18-01A (1-3 ft)**	ASTM D2974-87	PMST/6581		
92201696002	**B-18-01A (5-7 ft)**	ASTM D2974-87	PMST/6581		
92201696003	**B-18-02A (1-2 ft)**	ASTM D2974-87	PMST/6581		
92201696004	**B-18-02A (4-5 ft)**	ASTM D2974-87	PMST/6581		
92201696005	**B-18-03A (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696006	**B-18-03A (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696007	**B-18-04A (1-3 ft)**	ASTM D2974-87	PMST/6582		
92201696008	**B-18-04A (5-7 ft)**	ASTM D2974-87	PMST/6582		
92201696009	**B-18-05 (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696010	**B-18-05 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696011	**B-18-06 (1-2 ft)**	ASTM D2974-87	PMST/6582		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fayetteville, B-4490 33727.1.1
Pace Project No.: 92201696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92201696012	**B-18-06 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696013	**B-18-07 (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696014	**B-18-07 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696015	**B-18-08 (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696016	**B-18-08 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696017	**Dup-1**	ASTM D2974-87	PMST/6582		
92201696018	**B-18-09 (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696019	**B-18-09 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696020	**B-18-10 (1-2 ft)**	ASTM D2974-87	PMST/6582		
92201696021	**B-18-10 (4-5 ft)**	ASTM D2974-87	PMST/6582		
92201696022	**B-18-11 (1-3 ft)**	ASTM D2974-87	PMST/6582		
92201696023	**B-18-11 (5-7 ft)**	ASTM D2974-87	PMST/6582		
92201696024	**B-18-12 (1-3 ft)**	ASTM D2974-87	PMST/6582		
92201696025	**B-18-12 (5-7 ft)**	ASTM D2974-87	PMST/6585		

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Schnabel Eng.

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 (T1401) **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.: 1.8 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Comments:

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 05/16/14

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

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NB **Date:** 5/16/14

SRF Review: JS **Date:** 5/17/14

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#: 92201696

92201696

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92201696

Page: of 1806112

Section A Required Client Information:
Company: Schnabel Engineering
Address: 1 Oak Branch Dr
Greensboro, NC 27401
Email To: Bradley@schnabel-eng.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Ben Bradley
Copy To:
Purchase Order No.:
Project Name:
Project Number: 1182101B.33

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference: WBS 33727.1.1
Pace Project Manager:
Pace Profile #: 6529-1

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Diesel	Gas 8260	8270	EPH	VPH	Metals (C+Pb)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-18-01A (1-3 ft)	S	G	~~5-15~~	~~1140~~	5-15	1140												X			X	X		001
2	B-18-01A (5-7 ft)				1140													X	X	X	X	X	X		002
3	B-18-02A (1-2 ft)						12:05												X			X	X		003
4	B-18-02A (4-5 ft)						12:05											X	X	X	X	X	X	X		004
5	B-18-03A (1-2 ft)						12:25													X		X	X		005
6	B-18-03A (4-5 ft)						12:25											X	X	X	X	X	X	X		006
7	B-18-04A (1-3 ft)						1:05											X	X	X	X	X	X	X		007
8	B-18-04A (5-7 ft)						1:05													X		X	X		008
9	B-18-05 (1-2 ft)						1:25											X	X	X	X	X	X	X		009
10	B-18-05 (4-5 ft)						1:25													X		X	X		010
11	B-18-06 (1-2 ft)						1:50											X	X	X	X	X	X	X		011
12	B-18-06 (4-5 ft)					V	1:50													X		X	X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Benjamin S. Bradley	5-15-14	4:00	[signature] PACE	5/16/14	0945	1.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92201696

Page: of

1806113

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Schnabel Engineering	Report To: Ben Bradley	Attention:
Address: 11 Oak Branch Dr	Copy To:	Company Name:
Greensboro NC 27401		Address:
Email To: bbradley@schnabel-eng.com	Purchase Order No.:	Pace Quote Reference: WBS 33727.1.1
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 11821013.33	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: ______

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Diesel	Gas	8260	8270	EPH	VPH	Metals (Cr + Pb)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-18-07 (1-2 ft)	S	G			5-15	2:05												X	X	X	Y	X	X	X		013
2	B-18-07 (4-5 ft)	↓	↓			↓	2:05														X			X	X		014
3	B-18-08 (1-2 ft)	↓	↓			↓	2:20												X	X	X	Y	X	X	X		015
4	B-18-08 (4-5 ft)	↓	↓			↓	2:20														X			Y	X		016
5	Dup-1					↓													X	X	X	X	X	X	X		017
6	B-18-09 (1-2 ft)					↓	2:45												X	X	X	X	X	X	X		018
7	B-18-09 (4-5 ft)					↓	2:45														X			X	X		019
8	B-18-10 (1-2 ft)					↓	2:55												X	Y	X	X	X	X	X		020
9	B-18-10 (4-5 ft)					↓	2:55														Y			X	X		021
10	B-18-11 (1-3 ft)					↓	3:05														X			X	X		022
11	B-18-11 (5-7 ft)					↓	3:05												X	X	X	Y	X	X	Y		023
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Benjamin S. Bradley	5-15-14	4:00	[signature] PACE	5/16/14	0945	1.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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92201696

Page: of 1806114

Section A Required Client Information:

Company: Schnabel Engineering
Address: 11 Oak Branch Dr
Greensboro, NC 27407
Email To: bradley@schnabelly.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Ben Bradley
Copy To:
Purchase Order No.:
Project Name:
Project Number: 182/013.33

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: WBS 35772.1.1
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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1	B-18-12 (1-3 ft)	S	G			5-15	3:15													X					X		024
2	B-18-12 (5-7 ft)	S	G																XX	XX	XX	XX	X	X			025
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Benjamin J. Bradley	5-15-14	4:00	A. Un / PACE	5/16/14	0945	1.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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