Hart & Hickman
A Professional Corporation
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2923 South Tryon Street
Suite 100 Charlotte, NC
28203-5449

704-586-0007 phone
704-586-0373 fax
www.harthickman.com

Via Email

June 29, 2011

Parker Poe Adams & Bernstein LLP
401 S. Tryon St., Ste. 3000
Charlotte, NC 28202-1151

Attention: Ms. Allison Edgar

Re: Phase II Environmental Site Assessment
Former Volvo Construction Equipment Facility
2169 Hendersonville Rd
Asheville, NC
H&H Job No. PPA-040

Dear Allison:

1.0 Introduction

This report presents the results of Phase II Environmental Site Assessment (ESA) activities conducted by Hart & Hickman, PC (H&H) at the Former Volvo Construction Equipment (VCE) Facility located at 2169 Hendersonville Rd in Asheville, Buncombe County, North Carolina (see Figure 1). H&H has prepared this report with the expectation that it would be shared with the current property owner, VCE, and the prospective property owner, Buncombe County.

A brief site description and a summary of previous assessment data are included below.

1.1 Site Description

The site is comprised of six land parcels totaling approximately 65.21 acres. Buildings and structures at the site include the following:

- 177,300 square ft one story vehicle fabrication and two-story office building in the eastern portion of the site ("Fabrication Building");

- A 163,100 square ft single story vehicle assembly building and two-story office building located in the central portion of the site ("Assembly Building");
- A 30,700 square ft final paint building located in the western portion of the site;
- A 15,600 square ft one-story office building located between the Fabrication Building and the Assembly Building in the south-central portion of the site;
- A covered, three-sided paint blasting shed located east of the Fabrication Building;
- A test track located in the northeastern portion of the site; and
- A covered hazardous waste storage area located in the northern portion of the site between the Assembly Building and the Fabrication Building.

The facility was constructed in the mid to late 1970s and initially used by Clark Equipment Company for the manufacture of tow motors and forklifts. VME Americas subsequently used the facility for the manufacture of large construction equipment. Since approximately 1997, VCE has used the site for the manufacturing of construction equipment. The facility was shut down in 2010.

Site topography slopes to the west-southwest toward Lake Julian which borders the site to the west and southwest.

1.2 Previous Environmental Assessments and Documents

H&H was provided several documents related to environmental activities at the site. These documents included:

- *Phase I Environmental Site Assessment (ESA)* prepared by Brinkerhoff Environmental Services dated April 27, 2010
- *Soil Cleanup Report with Site Closure Request and Closure Request* [sic] prepared by Bradburne, Biller & Johnson, PLLC dated October 26, 2010
- Notice of No Further Action letter for petroleum underground storage tanks (USTs) from the North Carolina Department of Environment and Natural Resources (DENR) dated December 15, 2010.

- CERCLA 104(e) Response letter dated September 27, 2010 prepared on behalf of VCE. This submittal contains numerous documents including previous inspection reports conducted by regulatory agencies, assessment and remediation reports related to two stormwater ponds at the site, spill summaries, a 1989 environmental audit conducted at the site, material safety data sheets (MSDSs) for products recently used at the site, permits, etc.
- As-built construction drawings of the Clark Equipment facility dated from 1975 and 1976.
- Materials made available in connection with a file review for the site conducted by H&H at the DENR Superfund Section in Raleigh, NC.
- Analytical data, summary tables, and figures depicting the location of soil samples collected by VCE in June 2010 in the area of a former paint blast shed in the eastern portion of the site and an oil/water separator (which may still be present) located beneath an above ground storage tank (AST) farm in the central portion of the site. H&H was not provided a Phase II ESA report for this work and we understand that no Phase II ESA report was prepared. We were also not provided with the specific locations of the samples collected adjacent to the oil/water separator.
- Analytical data and a figure depicting soil and groundwater samples collected by Bunnell-Lammons Engineering (BLE) in May 2011.[1]

Based upon our site visit and review of previous documents as discussed above, H&H developed and implemented a sampling plan for additional Phase II ESA activities at the site focusing on areas not addressed in previous assessments. Please note that H&H could not discern the location of several potential areas of concern mentioned in documents where recent facility personnel did not know the location of these historic areas. These include a 3,000 gallon concrete-lined waste oil sump and the location(s) where oil/water separator sludge was placed at the site.

The methods and results of our Phase II ESA activities are presented below.

[1] On June 27, 2011, H&H received a copy of the *Report of Limited Phase II Environmental Site Assessment* prepared by Bunnell-Lammons Engineering dated June 24, 2011

2.0 Sampling Activities

2.1 Sample Locations

On June 15 and 16, 2011 H&H conducted soil and groundwater sampling activities at the site. Potential areas of concern identified for additional assessment included:

- the paint blasting shed
- the West Pond
- a former paint storage area and the oil/water separator in the north-central plant area
- sump pits, trench drains, and a former paint booth in the Assembly Building
- sump pits, milling pits, and a zinc coating process in the Fabrication Building
- former "paint kitchens" located on the sides of the Assembly Building and Fabrication Building

A figure with the potential areas of concern and boring locations is provided as Figure 2. The rationale for sampling and the sample locations and analyses are provided below. The depths of the soil samples submitted for laboratory analysis are indicated in Table 1. All soil borings except HH-21 were conducted using a direct push technology (DPT) rig. Sample HH-21 was collected using a hand auger.

- Paint Blasting Shed (soil sample HH-21). Previous sampling conducted by VCE in June 2010 indicated elevated levels of barium in the blast media in the paint blast shed. Soil sampling conducted by VCE in June 2010 in the blasting shed area was from deeper soil only (greater than 4 ft). As part of the BLE Phase II ESA activities conducted in May 2011, a shallow soil sample was collected in the area of the paint blasting shed where blast media was observed on the ground surface; however, the sample was broken in transit and no replacement sample was collected. In addition, no prior soil analysis was conducted for full hazardous substance list (HSL) metals in accordance with DENR Inactive Hazardous Sites Branch (IHSB) guidance in this area.

H&H collected one shallow soil sample (depth of 1 ft below ground surface) from the south side of the paint blast shed where bare soil and residual blast media were observed on the ground surface. All other areas around the paint blast shed were observed to be paved. The sample was analyzed for HSL metals plus barium by EPA Method 6010/7471A/7196. The HSL metals include antimony, arsenic, beryllium, cadmium, chromium (and hexavalent chromium), copper, lead, manganese, nickel, selenium, silver, thallium, and zinc.

- West Pond (soil samples HH-1 and HH-2). Prior documents indicate that oil/water separator sludge was disposed in the West Pond and that surface water runoff from exterior areas discharged to this pond. Soil remediation activities were conducted at the West Pond in 2001, and the pond was lined with concrete at that time. Sampling indicated elevated levels of total petroleum hydrocarbons (TPH) and metals in the soil. Following removal of soil below the pond, confirmation samples were collected only for TPH. The results indicated that concentrations were below DENR action levels. However, no confirmation samples were analyzed for metals. The data was apparently not reported to DENR, and DENR has not issued a no further action letter for the West Pond.

  To assess the potential for residual levels of metals in soil below the current concrete lining of the West Pond, H&H installed two angled borings as close as possible to the side of the pond and collected samples at depth for laboratory analysis of HSL metals.

- North Central Plant Area (soil samples HH-14, HH-15 and HH-16). Historical maps indicate the presence of a paint storage area, a concrete wash pad, and an oil/water separator in the north-central plant area, just north of the former UST area. Historical maps indicate that a drain located in the paint storage area discharged to the oil/water separator. It is possible the oil/water separator may still be present below the current AST area. Previous soil sampling conducted as part of the former UST assessment indicated the presence of 2-chlorotoluene, tetrachloroethene (PCE), and methylene chloride in soil above the DENR Inactive Hazardous

Sites Branch (IHSB) program Protection of Groundwater Preliminary Soil Remediation Goals (PGSRGs) in a boring adjacent to the paint storage area and concrete wash pad. In addition, samples collected by VCE near the oil/water separator indicated methylene chloride above the PGSRG. In addition, a DENR file review indicated the presence of a former drum storage area and two waste oil tanks in the northern portion of the site northwest of the former UST area.

H&H advanced soil borings in the area of the paint storage/wash area, oil/water separator, and drum storage/waste oil tanks and collected samples for analysis of volatile organic compounds (VOCs) by EPA Method 8260B and HSL metals. The soil sample collected from the drum storage/waste oil area was also analyzed for oil and grease (O&G) by EPA Method 9071A.

- Assembly Building (soil samples HH-3 through HH-13 and temporary groundwater monitoring well TWHH-13). Historical maps indicate the presence of several areas of concern in the Assembly Building. These areas include sump pits, paint booths, wash trench drains, and a paint kitchen. No prior sampling has been conducted in these areas.

  H&H advanced five soil borings in the area of the sump pits (HH-3, HH-4, HH-5, HH-6, and HH-10), and selected three samples for laboratory analysis from borings HH-3, HH-4, and HH-10. The soil samples were analyzed for TPH-diesel range organics (DRO) and TPH-gasoline range organics (GRO) by EPA Method 8015M, and for oil and grease by EPA Method 9071. In addition, five soil borings (HH-7, HH-8, HH-9, HH-11, and HH-12) were advanced at the locations of the former paint booths and wash drains. Three soil samples were selected for laboratory analysis from borings HH-7, HH-8, and HH-12 for laboratory analysis. These samples were analyzed for VOCs by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, and HSL metals. In addition, a soil boring (HH-13) was advanced in the area of the former paint kitchen. This soil sample was analyzed for HSL metals, VOCs, and TPH-DRO/GRO.

Based upon field evidence of soil impacts, a temporary monitor well was installed in the HH-13 boring and the well was labeled TWHH-13. Groundwater was encountered in the area at approximately 33 ft bgs, and the well was installed to the depth of DPT refusal at 36 ft. The groundwater sample from TWHH-13 was submitted for analysis of VOCs and SVOCs. A temporary well also was installed at boring location of HH-3 due to field evidence of soil impacts; however, DPT refusal was encountered at 26 ft and no groundwater accumulated in the well.

- Fabrication Building (soil samples HH-17 through HH-20 and HH-22 through HH-25). Historical maps and discussions with facility personnel indicated the presence of several areas of concern in the Fabrication Building. These areas include the former sump pits, a paint booth, a former paint kitchen, milling pits, and zinc phosphate coating area. No prior sampling had been conducted in these areas. Two borings were advanced at the milling pits (HH-17 and HH-19), and one soil sample from HH-17 was submitted for laboratory analysis of HSL metals and oil and grease. The samples collected adjacent to the sump pits (HH-24 and HH-25) were analyzed for TPH-GRO/DRO and oil and grease. The samples from the zinc phosphate area were collected from a surface area with some degraded concrete (HH-23) and from a collection pit (HH-22). These samples were analyzed for HSL metals. The sample collected at the former paint booth (HH-20) was analyzed for VOCs, SVOCs, and HSL metals, and the sample collected at the former paint kitchen (HH-18) was analyzed for HSL metals.

  In addition, a temporary well was installed at HH-17 to the depth of DPT refusal at 32 ft; however, no water collected in the well.

- Background Samples (BG-1 through BG-3). To assess levels of naturally occurring metals in soil, three background soil borings (BG-1 through BG-3) were advanced in separate locations and depths at the site. Each background soil boring was advanced in an area which

did not appear to have been impacted by historical site activities. The background soil samples were collected at depths of 15 ft, 5 ft, and 1 ft, from BG-1, BG-2 and BG-3, respectively.

2.2 Sampling Methodology

Boring locations were identified based upon the historical maps, discussions with site personnel, and field observations. Prior to assessment activities, a private utility locator was contracted to ensure subsurface utilities would not be encountered during drilling activities. A truck mounted DPT was used to conduct the drilling expect for boring HH-21, which was advanced using a decontaminated hand auger. During advancement, soil samples removed from each boring was screened for visual and olfactory evidence of impact and for the presence of volatile organics using a photo-ionization detector (PID). Based upon field screening, soil samples were selected for laboratory analysis. Boring logs are provided in Appendix A.

The temporary wells at HH-3 and HH-17 were set using a DPT screen point sampler. Temporary monitoring well TWHH-13 was installed by advancing soil boring HH-13 to refusal, and subsequently installing a 1-inch diameter PVC machine-slotted screen and PVC riser. The groundwater was collected using a disposable 0.75-inch diameter bailer.

Soil and groundwater samples were collected directly into dedicated laboratory-supplied sample bottles and the samples were placed in an iced cooler immediately after collection. A chain-of-custody record was completed for the samples collected that included the sample description, date collected, time collected, matrix, sample container information, and required analysis. The chain-of-custody was signed by on-site H&H personnel and was relinquished to Pace Analytical of Asheville, North Carolina. Laboratory analytical results are presented in Appendix B. Following sample collection, each boring was backfilled with grout and concrete was repaired where required.

2.3 Analytical Results

The results of the soil sample analyses are summarized in Table 1, and the results of the groundwater analyses are summarized in Table 2. The laboratory analytical data are provided in Appendix B. The soil analytical results were compared to the DENR IHSB PGSRGs and HBSRGs, and the EPA industrial regional screening levels (RSLs). The petroleum-related soil analytical results (i.e., TPH and oil and grease) were compared to the DENR UST Section action levels for non-UST petroleum releases. The groundwater analytical results were compared to the North Carolina groundwater standards.

2.3.1 Soil

Soil sample HH-13 (3') contained concentrations of 2-chlorotoluene (761 mg/kg), 4-chlorotoluene (17.2 mg/kg), naphthalene (4.87 mg/kg), o-xylene (6.45 mg/kg), and total xylenes (10.9 mg/kg) above their respective IHSB PGSRGs. 2-Cholortoluene and naphthalene detections in HH-13 (3') also exceeded the unrestricted use HBSRGs.

Naphthalene (0.786 mg/kg) was detected above the PGSRG in HH-15 (2'). A soil sample (GP-7 from 6-8 ft bgs) previously collected in the area of HH-15 by VCE in June 2010 indicated detections of 2-chlorotoluene (6.29 mg/kg), methylene chloride (0.0544 mg/kg), and tetrachloroethene (0.0148 mg/kg) above their respective PGSRGs.

Concentrations of TPH-DRO and oil & grease were detected in soil samples HH-3 (4'), HH-4 (2'), and HH-10 (4') above DENR action levels. TPH-DRO detections in these samples ranged from 901 mg/kg to 4,050 mg/kg, and O&G detections ranged from 3,120 mg/kg to 7,180 mg/kg. TPH-DRO and TPH-GRO were also detected in HH-13 (3') at concentrations above DENR action levels.

The results of the soil analyses indicate that metals detections were generally consistent with background, except for manganese in multiple locations. Background manganese was detected at concentrations of 87.9 mg/kg to 122 mg/kg, and soil sample manganese concentrations were

detected at concentrations up to 2,230 mg/kg. Manganese detected at concentrations greater than three times the average background levels included HH-8 (2'), HH-12 (4'), HH-14 (2'), HH-18 (5'), HH-21 (1'), HH-22 (9'), and HH-23 (5'). Manganese detections in these samples ranged from 374 mg/kg to 2,230 mg/kg. These concentrations exceed the PGSRG and the HBSRG.

2.3.2 Groundwater

Concentrations of 2-chlorotoluene (1,220 µg/L) and naphthalene (12.2 µg/L) were detected in groundwater sample TWHH-13 above their respective North Carolina groundwater standards of 100 µg/L and 6 µg/L, respectively. 4-Chlorotoluene was also detected at a concentration of 60.8 µg/L, but 4-chlorotoluene does not have a published North Carolina standard. In accordance with NCAC 2L .0202 regulations, compounds which do not have a standard are not allowed in detectable quantities.

3.0 Summary

In summary, the results of H&H's Phase II ESA activities indicate the presence of soil impacts above applicable DENR levels in the following areas:

- Former paint kitchen at the Assembly Building;
- Three former sump pits in the Assembly Building;
- Former paint storage area in the north-central portion of the site; and
- Manganese detections in multiple locations.

In addition, groundwater impacts were identified above applicable DENR standards in the area of the former Assembly Building Paint kitchen.

H&H understands that a copy of this report will be provided to VCE so that they can report the identified exceedances of soil and groundwater standards in accordance with DENR regulations.

4.0 Reliance

In accordance with the terms of H&H's Professional Services Agreement, this report may only be relied upon by Parker Poe Adams & Bernstein LLP and its confidential client, and that no third parties, including VCE or Buncombe County may rely on the report without the express written authorization of Parker Poe Adams & Bernstein LLP, its confidential client, and H&H, and subject to executing a written reliance agreement between H&H and the third party.

Should you have any questions or need additional information, please do not hesitate to call us at (704) 586-0007.

Very truly yours,

Hart & Hickman, PC

Steven Hart
Principal

Table 1 (Page 1 of 2)
Summary of Soil Analytical Data
Former Volvo Construction Equipment Facility
Asheville, North Carolina
H&H Job No. PPA-040

Location	West Pond	West Pond	Assembly Building - Former Sump Pit	Assembly Building - Former Sump Pit	Assembly Building - Former Paint Booth	Assembly Building - Former Trench Drain	Assembly Building - Former Sump Pit	Assembly Building - Former Paint Booth	Assembly Building - Former Paint Kitchen	Former Drum Storage/Waste Oil Tanks	Former Paint Storage	Former Paint Storage	**Screening Criteria**					
													Background Samples			DENR IHSB Protection of Ground Water SRG [1]	DENR IHSB Unrestricted Use SRG[2]	EPA RSL for Industrial Soil[3]
Sample ID	HH-1	HH-2	HH-3	HH-4	HH-7	HH-8	HH-10	HH-12	HH-13	HH-14	HH-15	GP-7 (Volvo)	BG-1	BG-2	BG-3			
Depth (ft bgs)	15	15	4	2	2	2	4	4	3	2	2	6-8	15	5	1			
Sample Date	6/16/2011	6/16/2011	6/15/2011	6/15/2011	6/16/2011	6/16/2011	6/15/2011	6/16/2011	6/16/2011	6/16/2011	6/16/2011	6/16/2010	6/16/2011	6/16/2011	6/16/2011			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
VOCs (8260B)																		
n-Butylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	<0.111	0.0454	NA	NA	NA	4.3	626 (5)	16,350 (5)
sec-Butylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	0.130	0.0570	NA	NA	NA	3.3	626 (5)	16,350 (5)
tert-Butylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	<0.111	0.0072	NA	NA	NA	3.4	626 (5)	16,350 (5)
2-Chlorotoluene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	**761**	<0.0057	0.589	**6.290**	NA	NA	NA	1.2	320	20,000
4-Chlorotoluene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	**17.2**	<0.0057	<0.111	0.136	NA	NA	NA	0.28	1,100	20,000
Isopropylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	<0.111	0.0084	NA	NA	NA	1.7 (5)	1,564 (5)	40,880 (5)
p-Isopropyltoluene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	0.483	0.741	NA	NA	NA	NS	NS	NS
Methylene Chloride	NA	NA	NA	NA	<0.0239	<0.0263	NA	<0.0209	<1.910	<0.0229	<0.442	**0.0544**	NA	NA	NA	0.023	11	53
Naphthalene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	**4.87**	<0.0057	**0.786**	0.171	NA	NA	NA	0.21	3.6	18
n-Propylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	<0.111	0.0289	NA	NA	NA	NS	NS	NS
Tetrachloroethene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	<0.478	<0.0057	<0.111	**0.0148**	NA	NA	NA	0.005	0.55	2.6
1,2,4- Trimethylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	2.64	<0.0057	0.779	1.170	NA	NA	NA	6.7	12	260
1,3,5- Trimethylbenzene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	0.558	<0.0057	0.688	0.0122	NA	NA	NA	6.7	160	1,000
m&p-Xylene	NA	NA	NA	NA	<0.0119	<0.0132	NA	<0.0107	4.41	<0.0115	<0.221	0.0121	NA	NA	NA	6.0	390	2,500
o-Xylene	NA	NA	NA	NA	<0.0060	<0.0066	NA	<0.0052	**6.45**	<0.0057	0.322	0.0510	NA	NA	NA	6.0	430	3,000
Xylenes (total)	NA	NA	NA	NA	<0.0119	<0.0132	NA	<0.0107	**10.9**	<0.0115	0.429	0.0631	NA	NA	NA	6.0	130	2,700
SVOCs (8270C)	NA	NA	NA	NA	BRL	BRL	NA	BRL	NA	NA	NA	BRL	NA	NA	NA	--	--	--
HSL Metals (6010/7471A/7196)																		
Arsenic	1.9	0.74	NA	NA	<0.59	<0.52	NA	<0.60	<0.53	<0.49	1.5	NA	2.0	<0.50	2.3	5.8	4.4	1.6
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580	3,000	190,000
Beryllium	0.27	0.58	NA	NA	0.87	1.3	NA	1.2	0.70	0.74	0.11	NA	1.9	0.88	0.58	63	32	2,000
Cadmium	0.78	1.6	NA	NA	1.7	6.2	NA	5.2	2.8	2.3	0.28	NA	4.2	1.4	0.52	3.0	14	800
Total Chromium	35.3	29.0	NA	NA	18.7	30.3	NA	22.7	24.6	15.3	16.5	32.2	59.4	12.8	27.7	NS	NS	NS
Trivalent Chromium	35.3	29.0	NA	NA	18.7	30.3	NA	22.7	24.6	15.3	16.5	32.2	59.4	12.8	27.7	360,000	24,000	1,500,000
Hexavalent Chromium	<6.6	<5.0	NA	NA	<5.4	<4.6	NA	<4.8	<5.5	<5.3	<6.1	<6.1	<4.8	<5.8	<6.4	3.8	0.29	5.6
Copper	13.2	46.7	NA	NA	40.7	75.1	NA	76.1	41.0	21.1	14.3	NA	48.4	9.2	8.7	700	620	41,000
Lead	35.7	9.5	NA	NA	5.4	13.8	NA	16.3	10.9	13.6	11.0	8.2	13.8	26.0	13.9	270	400	800
Manganese	48.6	174	NA	NA	185	**1,800**	NA	**2,230**	296	**374**	135	NA	122	137	87.9	65	360	23,000
Mercury	0.0066	0.080	NA	NA	0.0057	0.010	NA	0.011	0.0092	0.011	0.014	NA	0.024	0.017	0.017	NS	4.6	310
Nickel	1.2	4.3	NA	NA	7.3	17.9	NA	18.9	8.9	4.0	7.2	NA	22.4	<0.50	2.0	130	300	20,000
Selenium	4.6	7.5	NA	NA	2.0	2.8	NA	2.9	2.1	2.1	2.5	NA	7.5	5.1	4.3	2.1	78	5,100
Zinc	9.8	37.1	NA	NA	51.4	26.7	NA	25.2	60.5	28.2	73.7	NA	156	5.9	8.3	1,200	4,600	310,000
TPH DRO/GRO (8015)													**NCDENR Action Levels[4] (mg/kg)**					
Diesel Range Organics (DRO)	NA	NA	**4,050**	**3,000**	NA	NA	**901**	NA	**525**	NA	NA	NA	40					
Gasoline Range Organics (GRO)	NA	NA	9.5	<4.8	NA	NA	<6.4	NA	**580**	NA	NA	NA	10					
Oil and Grease (9071)	NA	NA	**7,180**	**5,230**	NA	NA	**3,120**	NA	NA	<86.5	NA	NA	250					

Notes:
1) Inactive Hazardous Sites Branch (IHSB) Soil Remediation Goals (SRGs) Protective of Groundwater (February 2011)
2) IHSB Health-Based SRG (February 2011)
3) EPA Regional Screening Level (RSL) for Industrial Soil (June 2011)
4) DENR UST Section Guidelines for Investigation and Remediation of Contamination from Non-UST Petroleum Releases (July 1, 2007)
5) DENR IHSB screening level not specified. Screening level is DENR UST Section Maximum Soil Contaminant Concentration
Manganese concentrations were considered greater than background if the sample concentration was approximately 3x the average site-specific background level or greater
Only those compounds detected in at least one sample shown above
Blue highlighting indicates a concentration above the IHSB Protection of Groundwater SRGs.
Orange highlighting indicates a concentration above the IHSB Protection of Groundwater SRGs and Unrestricted Use SRGs.
Green highlighting indicates a concentration above the DENR UST Section Action Levels for non-UST petroleum releases.
Analytical method number follows parameter in parenthesis
VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; Hazardous Substance List
TPH = total petroleum hydrocarbons; DRO = Diesel Range Organics; GRO = Gasoline Range Organics
NS = screening criteria not specified; NA = not analyzed; -- = Not applicable; BRL = Constituent not detected at or above laboratory reporting limit
mg/kg = milligrams per kilogram

Table 1 (Page 2 of 2)
Summary of Soil Analytical Data
Former Volvo Construction Equipment Facility
Asheville, North Carolina
H&H Job No. PPA-040

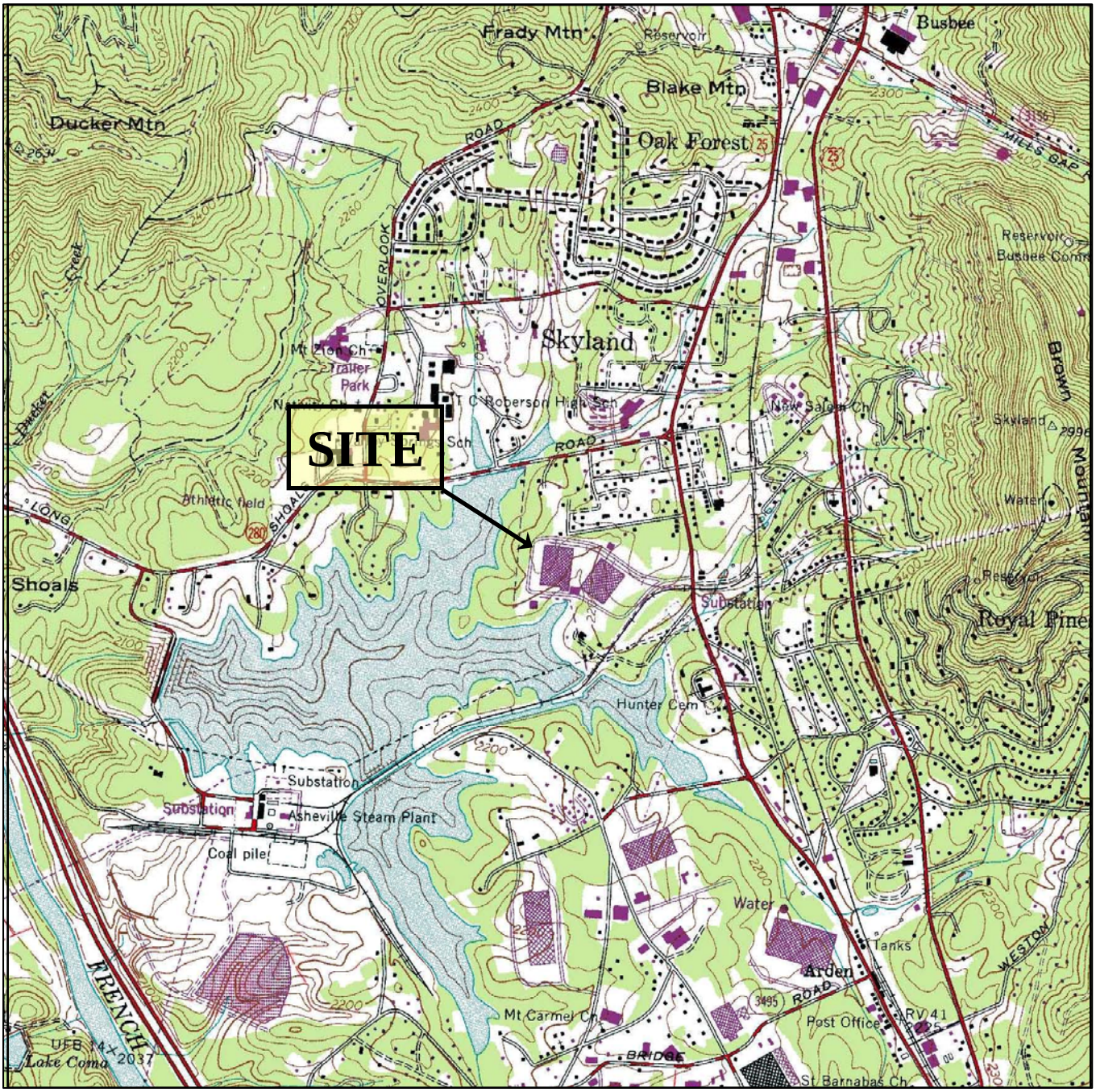
Location	Former Oil/Water Separator	Fabrication Building - Milling Pits	Fabrication Building - Milling Pits	Fabrication Building - Former Paint Booth	Paint Blasting Shed	Fabrication Building - Zinc Phosphate Area	Fabrication Building - Zinc Phosphate Area	Fabrication Building - Former Sump Pit	Fabrication Building - Former Sump Pit	**Screening Criteria**					
										Background Samples			DENR IHSB Protection of Groundwater SRG [1]	DENR IHSB Unrestricted Use SRG[2]	EPA RSL for Industrial Soil[3]
Sample ID	HH-16	HH-17	HH-18	HH-20	HH-21	HH-22	HH-23	HH-24	HH-25	BG-1	BG-2	BG-3			
Depth (ft bgs)	10	2	5	2	1	9	5	12	12	15	5	1			
Sample Date	6/16/2011	6/15/2011	6/15/2011	6/15/2011	6/16/2011	6/15/2011	6/15/2011	6/15/2011	6/15/2011	6/16/2011	6/16/2011	6/16/2011			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
VOCs (8260B)															
n-Butylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	4.3	626 (5)	16,350 (5)
sec-Butylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	3.3	626 (5)	16,350 (5)
tert-Butylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	3.4	626 (5)	16,350 (5)
2-Chlorotoluene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	1.2	320	20,000
4-Chlorotoluene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	0.28	1,100	20,000
Isopropylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	1.7 (5)	1,564 (5)	40,880 (5)
p-Isopropyltoluene	0.0174	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS
Methylene Chloride	<0.0182	NA	NA	<0.0212	NA	NA	NA	NA	NA	NA	NA	NA	0.023	11	53
Naphthalene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	0.21	3.6	18
n-Propylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS
Tetrachloroethene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.55	2.6
1,2,4- Trimethylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	6.7	12	260
1,3,5- Trimethylbenzene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	6.7	160	1,000
m&p-Xylene	<0.0091	NA	NA	<0.0106	NA	NA	NA	NA	NA	NA	NA	NA	6.0	390	2,500
o-Xylene	<0.0046	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	6.0	430	3,000
Xylenes (total)	<0.0091	NA	NA	<0.0106	NA	NA	NA	NA	NA	NA	NA	NA	6.0	130	2,700
SVOCs (8270C)	NA	NA	NA	BRL	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
HSL Metals (6010/7471A/7196)															
Arsenic	0.60	<0.37	<0.59	1.5	<0.74	<0.42	<0.43	NA	NA	2.0	<0.50	2.3	5.8	4.4	1.6
Barium	NA	NA	NA	NA	34.6	NA	NA	NA	NA	NA	NA	NA	580	3,000	190,000
Beryllium	0.51	<0.073	0.83	0.64	0.35	0.91	0.83	NA	NA	1.9	0.88	0.58	63	32	2,000
Cadmium	0.45	1.7	2.1	2.5	1.1	2.3	1.4	NA	NA	4.2	1.4	0.52	3.0	14	800
Total Chromium	17.7	28.4	16.3	30.3	26.6	17.8	10.9	NA	NA	59.4	12.8	27.7	NS	NS	NS
Trivalent Chromium	17.7	28.4	16.3	30.3	26.6	17.8	10.9	NA	NA	59.4	12.8	27.7	360,000	24,000	1,500,000
Hexavalent Chromium	<6.7	<2.9	<6.9	<5.3	<8.9	<2.0	<5.4	NA	NA	<4.8	<5.8	<6.4	3.8	0.29	5.6
Copper	76.8	63.6	49.3	30.0	17.7	36.7	73.3	NA	NA	48.4	9.2	8.7	700	620	41,000
Lead	10.5	1.9	9.5	14.6	12.3	7.1	11.3	NA	NA	13.8	26.0	13.9	270	400	800
Manganese	292	152	**1,080**	180	**861**	**614**	**459**	NA	NA	122	137	87.9	65	360	23,000
Mercury	0.015	<0.0030	0.0082	0.037	0.01	<0.0047	0.0058	NA	NA	0.024	0.017	0.017	NS	4.6	310
Nickel	8.1	30.4	11.4	4.6	4.1	4.1	8.4	NA	NA	22.4	<0.50	2.0	130	300	20,000
Selenium	4.9	<0.73	2.6	2.7	7.0	1.7	2.0	NA	NA	7.5	5.1	4.3	2.1	78	5,100
Zinc	43.9	67.5	34.0	20.5	16.8	43.8	43.2	NA	NA	156	5.9	8.3	1,200	4,600	310,000
TPH DRO/GRO (8015)										**NCDENR Action Levels[4] (mg/kg)**					
Diesel Range Organics (DRO)	NA	NA	NA	NA	NA	NA	NA	<5.6	<5.4	40					
Gasoline Range Organics (GRO)	NA	NA	NA	NA	NA	NA	NA	<6.1	<5.8	10					
Oil and Grease (9071)	NA	<70.8	NA	NA	NA	NA	NA	<79.1	<73.9	250					

Notes:
1) Inactive Hazardous Sites Branch (IHSB) Soil Remediation Goals (SRGs) Protective of Groundwater (February 2011)
2) IHSB Health-Based SRG (February 2011)
3) EPA Regional Screening Level (RSL) for Industrial Soil (June 2011)
4) DENR UST Section Guidelines for Investigation and Remediation of Contamination from Non-UST Petroleum Releases (July 1, 2007)
5) DENR IHSB screening level not specified. Screening level is DENR UST Section Maximum Soil Contaminant Concentration
Manganese concentrations were considered greater than background if the sample concentration was approximately 3x the average site-specific background level or greater
Only those compounds detected in at least one sample shown above
Blue highlighting indicates a concentration above the IHSB Protection of Groundwater SRGs.
Orange highlighting indicates a concentration above the IHSB Protection of Groundwater SRGs and Unrestricted Use SRGs.
Green highlighting indicates a concentration above the DENR UST Section Action Levels for non-UST petroleum releases.
Analytical method number follows parameter in parenthesis
VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; Hazardous Substance List
TPH = total petroleum hydrocarbons; DRO = Diesel Range Organics; GRO = Gasoline Range Organics
NS = screening criteria not specified; NA = not analyzed; -- = Not applicable; BRL = Constituent not detected at or above laboratory reporting limit
mg/kg = milligrams per kilogram

Table 2 (Page 1 of 1)
Summary of Groundwater Analytical Data
Former Volvo Construction Equipment Facility
Asheville, North Carolina
H&H Job No. PPA-040

Location	Assembly Building Former Paint Kitchen	**NC 2L Groundwater Standard [1]**
Sample ID	TW HH-13	
Sample Date	6/16/2011	
Units	(µg/L)	(µg/L)
VOCs (8260B)		
2-Chlorotoluene	**1,220**	100
4-Chlorotoluene	**60.8**	NS*
Ethylbenzene	2.4	600
Naphthalene	**12.2**	6
Toluene	1.9	600
Xylene (Total)	49.0	500
SVOCs (8270C)	BRL	--

Notes:
1) NCAC 2L Groundwater Standards (January 1, 2010)
Only detected compounds shown above
Yellow highlighting indicates concentration above NC 2L Groundwater Standards
Method number follows parameter in parenthesis
VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds
NS = No Standard - Per NCAC 2L .0202, substances which are not naturally occurring and for which no standard is specified shall not be permitted in concentrations at or above the practical quantitation limits
-- = Not applicable
BRL = All compounds not detected at or above laboratory reporting limit
µg/L = micrograms per liter



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

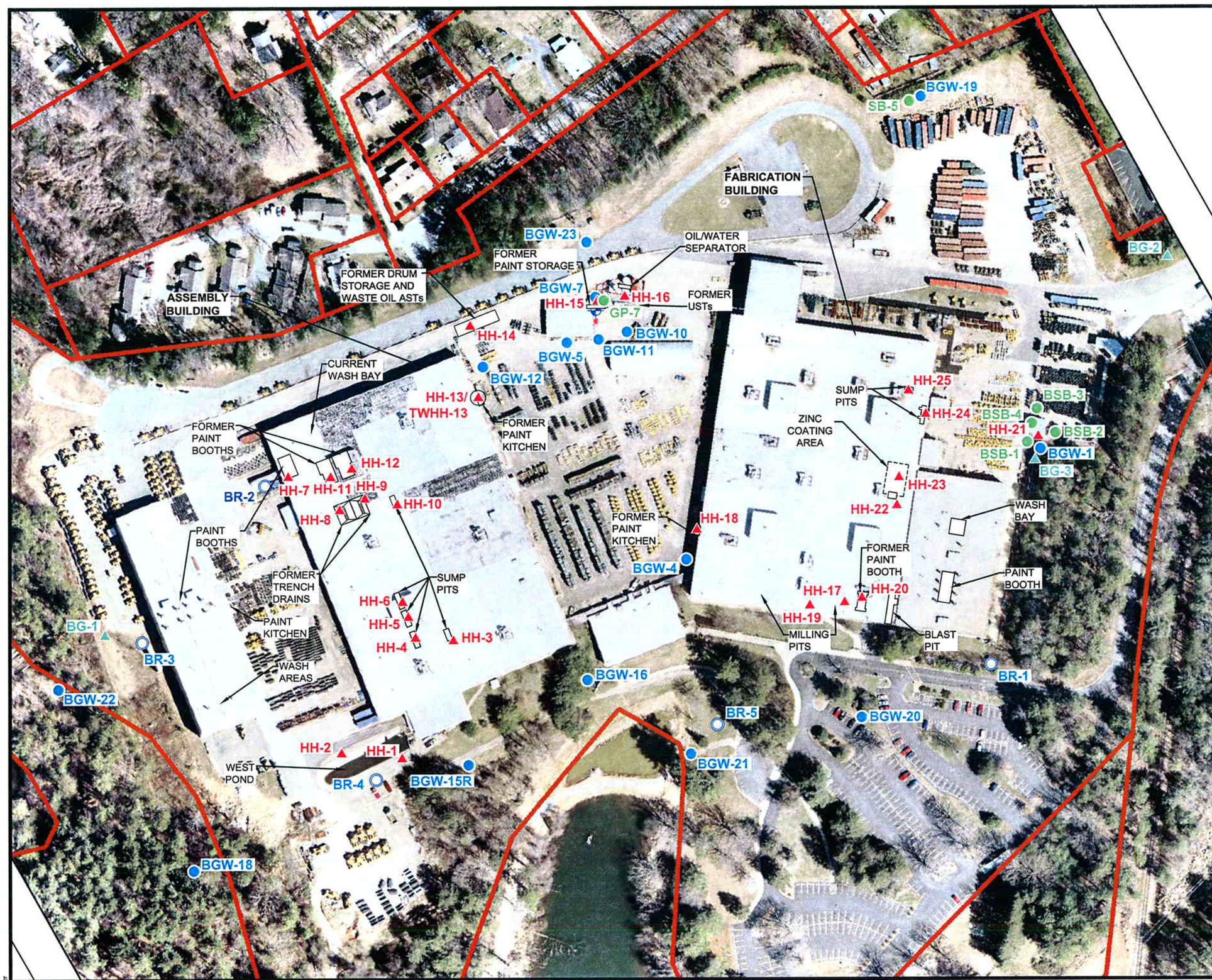
Skyland, NC 1965
Revised 1991

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	FOMER VOLVO CONSTRUCTION EQUIPMENT FACILITY ASHEVILLE, NC

Hart & Hickman
A Professional Corporation
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	06-28-11	REVISION NO:	0
JOB NO:	PPA-040	FIGURE:	1



LEGEND

- APPROXIMATE LOCATION OF GEOPROBE GROUNDWATER SAMPLE
- APPROXIMATE LOCATION OF GEOPROBE SOIL SAMPLE
- APPROXIMATE LOCATION OF TEMPORARY BEDROCK MONITORING WELL
- APPROXIMATE LOCATION OF EXISTING GROUNDWATER MONITORING WELL
- H&H SOIL BORING LOCATION
- H&H SOIL AND GROUNDWATER SAMPLE LOCATION
- H&H BACKGROUND SOIL SAMPLE LOCATION

N

APPROXIMATE
0 150 300
SCALE IN FEET

TITLE
BORING LOCATION MAP

PROJECT
FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 6-28-11	REVISION NO. 0
JOB NO. PPA-040	FIGURE NO. 2

S:\AAA-Master Projects\Parker Poe Adams (PPA)\PPA-040 volvo equipment\Aerial Site Map.dwg, 11x17 L, 6/28/2011 9:26:07 AM, nfoster

Appendix A

Boring Logs

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-1

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Topsoil		0
			0	0.9		Slightly moist, soft, orange brown, fine sandy SILT, with mica		
			0	2.6				
						White rock		
						Dry, firm, orange red, fine sandy CLAY		
5			0	1.6		Slightly moist, soft, orange brown, fine sandy SILT, with mica		5
			0	1.2		Dry, firm, orange red, fine sandy CLAY		
			0	2.3				
10								10
			0	4.1				
			0	5.2		Slightly moist, slightly firm, orange brown, clayey SILT		
15			0	3.6				15
			0	3.6		Slighty moist, soft, orange tan black, SILT, with relict structure		
			0	3.3				
20						Bottom of borehole at 20.0 feet.		20

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 20 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 15' bgs

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-2

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0						Gravel	
			0	0.4		Slightly moist, firm, orange red, CLAY, with fine sand	
			0	0.5			
5			0	0.9			
			0	2		Slightly moist, soft, orange red, fine sandy SILT	
			0	3.6		Slightly moist, slightly firm, orange brown, clayey SILT with fine to coarse sand	
10			0	2.6			
			0	2.4			
15			0	2.9			
			0	2.6			
						Bottom of borehole at 18.0 feet.	
			0	1.2			
20							

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 18 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 15' bgs

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BORING NUMBER HH-3

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	112		Slightly moist, slightly firm, orange brown, clayey SILT, with sand		
			0	146				
5			0	10.5				5
			0	8.1		Slightly moist, firm, orange red, silty CLAY		
			0	12.1		Slightly moist, soft, orange red, silty fine SAND		
10			0	35.1				10
			0	45		Slightly moist, soft, tan brown, silty fine SAND		
			0	22				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 4' bgs

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BORING NUMBER HH-4

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0.2	40.2		Dry, firm, red orange, silty CLAY		
			0.8	17.1				
						Slightly moist, soft, orange brown, fine sandy SILT		
5			0.6	7.8				5
			0.5	5.1				
						Slightly moist, soft, tan brown orange, silty fine SAND		
			0.5	3.7				
10								10
			0.4	4				
			0.6	2.8				
			0.4	33				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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BORING NUMBER HH-5

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0.3	3.2		Dry, soft, red orange, silty fine to medium SAND		
			0.4	3.8				
						Slightly moist, firm, red orange, silty CLAY		
5			0.3	4.1		Slightly moist, soft tan brown, silty fine SAND, with quartz at 8ft bgs		5
			0.3	4.3				
			0.3	2.5		Slightly moist, soft, tan brown, fine to medium sandy SILT		
10			0.2	3.9				10
			0.2	2.2				
			0.5	0.7				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
No sample collected

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BORING NUMBER HH-6

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0.4	2.6		Slightly moist, slightly firm, orange red, silty CLAY		
			0.3	4.7				
						Slightly moist, soft, orange brown, clayey SILT		
5			0.5	4				5
			0.8	1.3				
			0.4	1.2				
10						Slightly moist, slightly firm, tan orange, clayey SILT, with fine sand		10
			0.4	11				
			0.2	2				
			0.4	2.3				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
No sample collected

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BORING NUMBER HH-7

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	5.1		Dry, soft, orange white tan, fine to coarse sandy SILT, with gravel sized rock		
2.5								2.5
			0	6.9		Slightly moist, soft, orange red, fine to medium sandy SILT		
			0	6.4				
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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BORING NUMBER HH-8

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0.1	5.9		Dry, soft, brown tan, silty fine SAND		
			0	4.8				
5			0.1	4.4		Slightly moist, soft, tan brown, fine to medium SAND, with silt		5
			0	4.7				
			0	5.2				
10						Slightly moist, soft, brown red, SILT, with fine sand and black mottling		10
			0	4.2				
			0	4.6				
			0	4				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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Charlotte, North Carolina 28203
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3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-9

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	1.2		Slightly moist, soft, brown orange, fine sandy SILT		
			0	1.1				
						Slightly moist, soft, orange brown black, clayey SILT, with fine sand and black mottling		
5			0	2.3				5
			0	3.1				
						Slightly moist, soft, tan, brown, silty fine to medium SAND		
			0.1	2.3				
10								10
			0.1	2.6				
						Slightly moist, red black clayey SILT		
			0	2.3				
			0	2.2				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 3' bgs

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-10

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0						Concrete	
			0	12.1		Slightly moist, slightly firm, orange brown, clayey SILT	
			0	32.5		Slightly moist, soft, yellow tan, SILT	
5			0	4.9		Moist, soft, black red, SILT, with fine sand	
			0	3.1		Moist, soft, tan, SILT	
			0	2			
10						Slightly moist, soft, red tan, SILT, with mica and relict structure	
			0	1.8			
			0	2			
			0.5	2			
15						Bottom of borehole at 15.0 feet.	

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 4' bgs

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704-586-0007(p) 704-586-0373(f)

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-11

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	2		Dry, slightly firm, red brown, clayey SILT, with fine sand		
2.5			0	1.6				2.5
			0	1.8		Dry, soft, orange red, silty fine SAND		
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
No sample collected

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-12

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
						Slightly moist, soft, orange brown, fine sandy SILT		
			0	4.2		Slightly moist, firm, orange red, silty CLAY		
						Slightly moist, soft, orange brown, fine sandy SILT, coarse grained sand and white gravel size rock at 4'		
2.5								2.5
			0	4.7				
			0	1.8				
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 4' bgs

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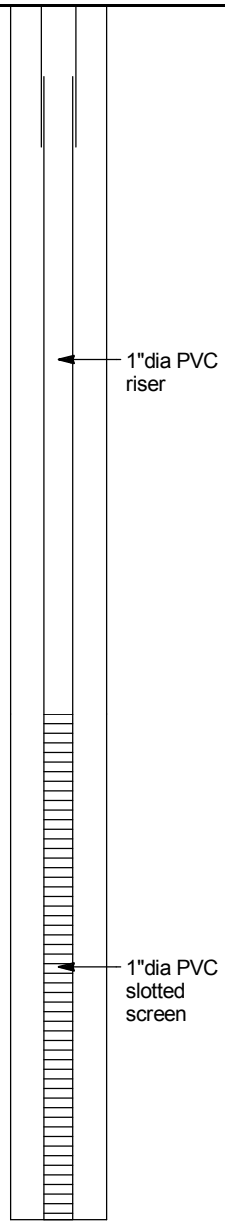
BORING NUMBER TWHH-13

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0						Concrete
			0	1245		Moist, soft, red brown, fine sandy SILT
			0	998		Moist, soft, red orange brown, clayey SILT, with fine sand
5			0	1086		
						Bottom of borehole at 36.0 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 36 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

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BORING NUMBER HH-14

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	7.1		Slightly moist, slighty firm, orange red, clayey SILT		
2.5			0	6.5		Slightly moist, soft, tan orange, fine sandy SILT, micaceous		2.5
			0	5.8				
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-15

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
						Gravel sized rock and fine to coarse SAND		
			0	162.1		Slightly moist, firm, red orange, silty CLAY		
2.5			0	26.1				2.5
			0	4.3		Slightly moist, soft, red yellow, fine medium sandy SILT		
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-16

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	5.1		Dry, firm, red orange, silty CLAY		
			0	4.8		Dry, firm, brown orange, silty CLAY		
5			0	6.4				5
			0	7.1		Slightly moist, firm, brown orange, silty CLAY		
			0	7.3				
10						Slightly moist, slightly firm, red orange, clayey SILT		10
			0	7.9				
			0	6.9				
			0	5.4				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 10' bgs

Hart & Hickman
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Charlotte, North Carolina 28203
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3334 Hillsborough Street
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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-17

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	1		Dry, soft, black gray, fine to medium SAND, with mica		
			0	0.9				
5			0	1.2				5
			0	0.5				
			0	1.8				
10			0	0.6				10
			0	1.8		Slightly moist, soft, orange brown, fine sandy SILT		
			0	0.9				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-18

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	1		Dry, soft, orange brown, clayey SILT, with some fine to coarse sand, micaceous		
2.5			0	5				2.5
			0	7.8		Dry, soft, yellow brown, clayey SILT, with fine to coarse sand, micaceous		
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 5' bgs

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-19

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	1.5		Dry, slightly firm, red orange, silty CLAY		
			0	1.2		Dry, soft, orange tan, fine to medium sandy SILT		
5			0	1.8				5
			0	1				
			0	1.5		Slightly moist, soft, orange brown, SILT with fine sand		
10			0	1.3				10
			0	1.6		Moist, firm, orange, silty CLAY, with fine sand		
			0	0.9		Moist, brittle, tan orange brown, clayey SILT, with gravel and partially weathered rock		
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
No sample collected

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-20

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	11.2		Slightly moist, firm, orange red, silty CLAY		
2.5			0	6.3				2.5
			0	6.9		Dry, brittle, orange tan red, fine to coarse sandy SILT, with gravel size rock		
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 2' bgs

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-21

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Topsoil		0
						Slightly moist, slightly firm, orange tan, clayey SILT		
1						Bottom of borehole at 1.0 feet.		1

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Hand Auger
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/16/11
BORING COMPLETED: 6/16/11
TOTAL DEPTH: 1 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 1' bgs

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704-586-0007(p) 704-586-0373(f)

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER HH-22

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	5.9		Dry, brittle, orange red, clayey SILT		
2.5			0	5.4				2.5
5.0			0	5.9		Dry, brittle, orange brown, silty fine to coarse SAND, with gravel size rock		5.0
			0	4.6				
7.5			0	5				7.5
						Bottom of borehole at 9.5 feet.		
10.0								10.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 9.5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 9' bgs

Hart & Hickman
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3334 Hillsborough Street
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BORING NUMBER HH-23

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	7.2		Dry, soft, orange red brown, sandy SILT, with trace mica		
2.5			0	9		Dry, soft, tan red brown, fine to medium sandy SILT, with trace mica		2.5
			0	9.7				
5.0						Bottom of borehole at 5.0 feet.		5.0

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 5' bgs

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BORING NUMBER HH-24

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
			0	5		Dry, orange red, slightly firm, clayey SILT, with fine sand		
			0	5		Dry, brittle, brown tan, silty fine to coarse SAND		
5			0	4.5		Dry, soft, brown, black tan, fine sandy SILT		5
			0	2.5		Dry, brittle, orange brown, silty fine to medium SAND		
			0	4.4				
10			0	5.7				10
			0	4.4		Slightly moist, brittle, gray white, gravelly fine to coarse SAND, with silt		
			0	4.5				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 12' bgs

Hart & Hickman
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BORING NUMBER HH-25

PROJECT: Former Volvo Construction Equipment Facility
JOB NUMBER: PPA-040
LOCATION: 2169 Hendersonville Rd Asheville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Concrete		0
						Dry, slightly firm, orange red, fine to coarse sandy CLAY		
			0	1.8		Dry, brittle, tan brown, silty fine to medium SAND		
			0	2.5				
						Dry, brittle, tan, sandy SILT		
5			0	3.9		Dry, brittle, tan brown, silty fine to medium SAND		5
			0.2	4.3				
						Dry, brittle, tan, sandy SILT		
			0	3.1		Dry, brittle, brown tan, fine SAND		
10								10
			0	3.9		Slightly moist, brittle, black tan, SILT		
			0	2.9				
			0	2.8				
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: BLE
DRILL RIG/ METHOD: Geoprobe / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL
DRAWN BY:

BORING STARTED: 6/15/11
BORING COMPLETED: 6/15/11
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 12' bgs

Appendix B

Laboratory Analytical Data

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

June 21, 2011

Mr. Steve Hart
Hart & Hickman
2923 South Tryon Street
Charlotte, NC 28203

RE: Project: PPA-040
Pace Project No.: 9296382

Dear Mr. Hart:
Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Report revised June 21, 2011 to correct reporting limit error for EPA 7196 Hexavalent Chromium.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

June 20, 2011

Mr. Steve Hart
Hart & Hickman
2923 South Tryon Street
Charlotte, NC 28203

RE: Project: PPA-040
Pace Project No.: 9296479

Dear Mr. Hart:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PPA-040
Pace Project No.: 9296479

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: PPA-040
Pace Project No.: 9296479

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9296479001	**HH-2 (15')**	Solid	06/16/11 11:30	06/16/11 16:50
9296479002	**HH-1 (15')**	Solid	06/16/11 13:20	06/16/11 16:50
9296479003	**BG-1 (15')**	Solid	06/16/11 15:10	06/16/11 16:50
9296479004	**BG-2 (5')**	Solid	06/16/11 15:45	06/16/11 16:50
9296479005	**BG-3 (1')**	Solid	06/16/11 15:35	06/16/11 16:50
9296479006	**HH-21 (1')**	Solid	06/16/11 12:30	06/16/11 16:50
9296479007	**HH-16 (10')**	Solid	06/16/11 14:40	06/16/11 16:50
9296479008	**HH-15 (2')**	Solid	06/16/11 14:55	06/16/11 16:50
9296479009	**TW HH-13**	Water	06/16/11 15:15	06/16/11 16:50

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Asheville, NC 28804
(828)254-7176

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

SAMPLE ANALYTE COUNT

Project: PPA-040
Pace Project No.: 9296479

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9296479001	**HH-2 (15')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479002	**HH-1 (15')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479003	**BG-1 (15')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479004	**BG-2 (5')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479005	**BG-3 (1')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479006	**HH-21 (1')**	EPA 6010	JMW	14	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479007	**HH-16 (10')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479008	**HH-15 (2')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296479009	**TW HH-13**	EPA 8260	MCK	64	PASI-C

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-2 (15') **Lab ID: 9296479001** Collected: 06/16/11 11:30 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-36-0	
Arsenic	**0.74**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-38-2	
Beryllium	**0.58**	mg/kg	0.15	1	06/17/11 16:50	06/18/11 16:40	7440-41-7	
Cadmium	**1.6**	mg/kg	0.15	1	06/17/11 16:50	06/18/11 16:40	7440-43-9	
Chromium	**29.0**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-47-3	
Copper	**46.7**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-50-8	
Lead	**9.5**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7439-92-1	
Manganese	**174**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7439-96-5	
Nickel	**4.3**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-02-0	
Selenium	**7.5**	mg/kg	1.5	1	06/17/11 16:50	06/18/11 16:40	7782-49-2	
Silver	ND	mg/kg	0.74	1	06/17/11 16:50	06/18/11 16:40	7440-22-4	
Thallium	ND	mg/kg	1.5	1	06/17/11 16:50	06/18/11 16:40	7440-28-0	
Zinc	**37.1**	mg/kg	1.5	1	06/17/11 16:50	06/18/11 16:40	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.080**	mg/kg	0.0067	1	06/17/11 10:50	06/18/11 13:01	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**36.3**	%	0.10	1		06/17/11 17:08		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.0	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-1 (15') **Lab ID: 9296479002** Collected: 06/16/11 13:20 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-36-0	
Arsenic	**1.9**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-38-2	
Beryllium	**0.27**	mg/kg	0.12	1	06/17/11 16:50	06/18/11 16:44	7440-41-7	
Cadmium	**0.78**	mg/kg	0.12	1	06/17/11 16:50	06/18/11 16:44	7440-43-9	
Chromium	**35.3**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-47-3	
Copper	**13.2**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-50-8	
Lead	**35.7**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7439-92-1	
Manganese	**48.6**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7439-96-5	
Nickel	**1.2**	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-02-0	
Selenium	**4.6**	mg/kg	1.2	1	06/17/11 16:50	06/18/11 16:44	7782-49-2	
Silver	ND	mg/kg	0.59	1	06/17/11 16:50	06/18/11 16:44	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/17/11 16:50	06/18/11 16:44	7440-28-0	
Zinc	**9.8**	mg/kg	1.2	1	06/17/11 16:50	06/18/11 16:44	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0066**	mg/kg	0.0058	1	06/17/11 10:50	06/18/11 13:03	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.5**	%	0.10	1		06/17/11 17:08		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	6.6	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: BG-1 (15') **Lab ID: 9296479003** Collected: 06/16/11 15:10 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-36-0	
Arsenic	**2.0**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-38-2	
Beryllium	**1.9**	mg/kg	0.14	1	06/17/11 16:50	06/18/11 16:49	7440-41-7	
Cadmium	**4.2**	mg/kg	0.14	1	06/17/11 16:50	06/18/11 16:49	7440-43-9	
Chromium	**59.4**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-47-3	
Copper	**48.4**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-50-8	
Lead	**13.8**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7439-92-1	
Manganese	**122**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7439-96-5	
Nickel	**22.4**	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-02-0	
Selenium	**7.5**	mg/kg	1.4	1	06/17/11 16:50	06/18/11 16:49	7782-49-2	
Silver	ND	mg/kg	0.68	1	06/17/11 16:50	06/18/11 16:49	7440-22-4	
Thallium	ND	mg/kg	1.4	1	06/17/11 16:50	06/18/11 16:49	7440-28-0	
Zinc	**156**	mg/kg	1.4	1	06/17/11 16:50	06/18/11 16:49	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.024**	mg/kg	0.0067	1	06/17/11 10:50	06/18/11 13:14	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**31.8**	%	0.10	1		06/17/11 17:08		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	4.8	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: BG-2 (5') **Lab ID: 9296479004** Collected: 06/16/11 15:45 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-36-0	
Arsenic	ND	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-38-2	
Beryllium	**0.88**	mg/kg	0.099	1	06/17/11 16:50	06/18/11 16:54	7440-41-7	
Cadmium	**1.4**	mg/kg	0.099	1	06/17/11 16:50	06/18/11 16:54	7440-43-9	
Chromium	**12.8**	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-47-3	
Copper	**9.2**	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-50-8	
Lead	**26.0**	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7439-92-1	
Manganese	**137**	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7439-96-5	
Nickel	ND	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-02-0	
Selenium	**5.1**	mg/kg	0.99	1	06/17/11 16:50	06/18/11 16:54	7782-49-2	
Silver	ND	mg/kg	0.50	1	06/17/11 16:50	06/18/11 16:54	7440-22-4	
Thallium	ND	mg/kg	0.99	1	06/17/11 16:50	06/18/11 16:54	7440-28-0	
Zinc	**5.9**	mg/kg	0.99	1	06/17/11 16:50	06/18/11 16:54	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.017**	mg/kg	0.0049	1	06/17/11 10:50	06/18/11 13:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.8**	%	0.10	1		06/17/11 17:09		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.8	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: BG-3 (1') **Lab ID: 9296479005** Collected: 06/16/11 15:35 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-36-0	
Arsenic	**2.3**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-38-2	
Beryllium	**0.58**	mg/kg	0.12	1	06/17/11 16:50	06/18/11 17:00	7440-41-7	
Cadmium	**0.52**	mg/kg	0.12	1	06/17/11 16:50	06/18/11 17:00	7440-43-9	
Chromium	**27.7**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-47-3	
Copper	**8.7**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-50-8	
Lead	**13.9**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7439-92-1	
Manganese	**87.9**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7439-96-5	
Nickel	**2.0**	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-02-0	
Selenium	**4.3**	mg/kg	1.2	1	06/17/11 16:50	06/18/11 17:00	7782-49-2	
Silver	ND	mg/kg	0.62	1	06/17/11 16:50	06/18/11 17:00	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/17/11 16:50	06/18/11 17:00	7440-28-0	
Zinc	**8.3**	mg/kg	1.2	1	06/17/11 16:50	06/18/11 17:00	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.017**	mg/kg	0.0053	1	06/17/11 10:50	06/18/11 13:20	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.0**	%	0.10	1		06/17/11 17:09		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	6.4	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-21 (1') **Lab ID: 9296479006** Collected: 06/16/11 12:30 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-36-0	
Arsenic	ND	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-38-2	
Barium	**34.6**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-39-3	
Beryllium	**0.35**	mg/kg	0.15	1	06/17/11 16:50	06/18/11 17:05	7440-41-7	
Cadmium	**1.1**	mg/kg	0.15	1	06/17/11 16:50	06/18/11 17:05	7440-43-9	
Chromium	**26.6**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-47-3	
Copper	**17.7**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-50-8	
Lead	**12.3**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7439-92-1	
Manganese	**861**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7439-96-5	
Nickel	**4.1**	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-02-0	
Selenium	**7.0**	mg/kg	1.5	1	06/17/11 16:50	06/18/11 17:05	7782-49-2	
Silver	ND	mg/kg	0.74	1	06/17/11 16:50	06/18/11 17:05	7440-22-4	
Thallium	ND	mg/kg	1.5	1	06/17/11 16:50	06/18/11 17:05	7440-28-0	
Zinc	**16.8**	mg/kg	1.5	1	06/17/11 16:50	06/18/11 17:05	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.010**	mg/kg	0.0072	1	06/17/11 10:50	06/18/11 13:22	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**38.7**	%	0.10	1		06/17/11 17:10		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	8.9	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-16 (10') **Lab ID: 9296479007** Collected: 06/16/11 14:40 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-36-0	
Arsenic	**0.60**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-38-2	
Beryllium	**0.51**	mg/kg	0.11	1	06/17/11 16:50	06/18/11 17:10	7440-41-7	
Cadmium	**0.45**	mg/kg	0.11	1	06/17/11 16:50	06/18/11 17:10	7440-43-9	
Chromium	**17.7**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-47-3	
Copper	**76.8**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-50-8	
Lead	**10.5**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7439-92-1	
Manganese	**292**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7439-96-5	
Nickel	**8.1**	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-02-0	
Selenium	**4.9**	mg/kg	1.1	1	06/17/11 16:50	06/18/11 17:10	7782-49-2	
Silver	ND	mg/kg	0.55	1	06/17/11 16:50	06/18/11 17:10	7440-22-4	
Thallium	ND	mg/kg	1.1	1	06/17/11 16:50	06/18/11 17:10	7440-28-0	
Zinc	**43.9**	mg/kg	1.1	1	06/17/11 16:50	06/18/11 17:10	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.015**	mg/kg	0.0053	1	06/17/11 10:50	06/18/11 13:25	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	91.0	1		06/20/11 11:53	67-64-1	
Benzene	ND	ug/kg	4.6	1		06/20/11 11:53	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		06/20/11 11:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		06/20/11 11:53	75-27-4	
Bromoform	ND	ug/kg	4.6	1		06/20/11 11:53	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		06/20/11 11:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.0	1		06/20/11 11:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		06/20/11 11:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		06/20/11 11:53	75-00-3	
Chloroform	ND	ug/kg	4.6	1		06/20/11 11:53	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		06/20/11 11:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		06/20/11 11:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		06/20/11 11:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		06/20/11 11:53	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		06/20/11 11:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		06/20/11 11:53	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		06/20/11 11:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		06/20/11 11:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	75-34-3	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-16 (10') **Lab ID: 9296479007** Collected: 06/16/11 14:40 Received: 06/16/11 16:50 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							
1,2-Dichloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		06/20/11 11:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/20/11 11:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/20/11 11:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		06/20/11 11:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		06/20/11 11:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		06/20/11 11:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		06/20/11 11:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/20/11 11:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/20/11 11:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		06/20/11 11:53	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		06/20/11 11:53	87-68-3	
2-Hexanone	ND	ug/kg	45.5	1		06/20/11 11:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		06/20/11 11:53	98-82-8	
p-Isopropyltoluene	**17.4**	ug/kg	4.6	1		06/20/11 11:53	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		06/20/11 11:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.5	1		06/20/11 11:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		06/20/11 11:53	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		06/20/11 11:53	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	103-65-1	
Styrene	ND	ug/kg	4.6	1		06/20/11 11:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		06/20/11 11:53	127-18-4	
Toluene	ND	ug/kg	4.6	1		06/20/11 11:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		06/20/11 11:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		06/20/11 11:53	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		06/20/11 11:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		06/20/11 11:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		06/20/11 11:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		06/20/11 11:53	108-67-8	
Vinyl acetate	ND	ug/kg	45.5	1		06/20/11 11:53	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		06/20/11 11:53	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		06/20/11 11:53	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		06/20/11 11:53	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		06/20/11 11:53	95-47-6	
Dibromofluoromethane (S)	98	%	70-130	1		06/20/11 11:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		06/20/11 11:53	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		06/20/11 11:53	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-132	1		06/20/11 11:53	17060-07-0	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-16 (10') **Lab ID: 9296479007** Collected: 06/16/11 14:40 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.2**	%	0.10	1		06/17/11 17:10		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	6.7	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-15 (2') **Lab ID: 9296479008** Collected: 06/16/11 14:55 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-36-0	
Arsenic	**1.5**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-38-2	
Beryllium	**0.11**	mg/kg	0.099	1	06/17/11 16:50	06/18/11 17:15	7440-41-7	
Cadmium	**0.28**	mg/kg	0.099	1	06/17/11 16:50	06/18/11 17:15	7440-43-9	
Chromium	**16.5**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-47-3	
Copper	**14.3**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-50-8	
Lead	**11.0**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7439-92-1	
Manganese	**135**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7439-96-5	
Nickel	**7.2**	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-02-0	
Selenium	**2.5**	mg/kg	0.99	1	06/17/11 16:50	06/18/11 17:15	7782-49-2	
Silver	ND	mg/kg	0.49	1	06/17/11 16:50	06/18/11 17:15	7440-22-4	
Thallium	ND	mg/kg	0.99	1	06/17/11 16:50	06/18/11 17:15	7440-28-0	
Zinc	**73.7**	mg/kg	0.99	1	06/17/11 16:50	06/18/11 17:15	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.014**	mg/kg	0.0050	1	06/17/11 10:50	06/18/11 13:28	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2210	25		06/17/11 21:07	67-64-1	
Benzene	ND	ug/kg	111	25		06/17/11 21:07	71-43-2	
Bromobenzene	ND	ug/kg	111	25		06/17/11 21:07	108-86-1	
Bromochloromethane	ND	ug/kg	111	25		06/17/11 21:07	74-97-5	
Bromodichloromethane	ND	ug/kg	111	25		06/17/11 21:07	75-27-4	
Bromoform	ND	ug/kg	111	25		06/17/11 21:07	75-25-2	
Bromomethane	ND	ug/kg	221	25		06/17/11 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2210	25		06/17/11 21:07	78-93-3	
n-Butylbenzene	ND	ug/kg	111	25		06/17/11 21:07	104-51-8	
sec-Butylbenzene	**130**	ug/kg	111	25		06/17/11 21:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	111	25		06/17/11 21:07	98-06-6	
Carbon tetrachloride	ND	ug/kg	111	25		06/17/11 21:07	56-23-5	
Chlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	108-90-7	
Chloroethane	ND	ug/kg	221	25		06/17/11 21:07	75-00-3	
Chloroform	ND	ug/kg	111	25		06/17/11 21:07	67-66-3	
Chloromethane	ND	ug/kg	221	25		06/17/11 21:07	74-87-3	
2-Chlorotoluene	**589**	ug/kg	111	25		06/17/11 21:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	111	25		06/17/11 21:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	111	25		06/17/11 21:07	96-12-8	
Dibromochloromethane	ND	ug/kg	111	25		06/17/11 21:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	111	25		06/17/11 21:07	106-93-4	
Dibromomethane	ND	ug/kg	111	25		06/17/11 21:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	221	25		06/17/11 21:07	75-71-8	D3
1,1-Dichloroethane	ND	ug/kg	111	25		06/17/11 21:07	75-34-3	

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-15 (2') **Lab ID: 9296479008** Collected: 06/16/11 14:55 Received: 06/16/11 16:50 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							
1,2-Dichloroethane	ND	ug/kg	111	25		06/17/11 21:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	111	25		06/17/11 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	111	25		06/17/11 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	111	25		06/17/11 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	111	25		06/17/11 21:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	111	25		06/17/11 21:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	111	25		06/17/11 21:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	111	25		06/17/11 21:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	111	25		06/17/11 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	111	25		06/17/11 21:07	10061-02-6	
Diisopropyl ether	ND	ug/kg	111	25		06/17/11 21:07	108-20-3	
Ethylbenzene	ND	ug/kg	111	25		06/17/11 21:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	111	25		06/17/11 21:07	87-68-3	
2-Hexanone	ND	ug/kg	1110	25		06/17/11 21:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	111	25		06/17/11 21:07	98-82-8	
p-Isopropyltoluene	**483**	ug/kg	111	25		06/17/11 21:07	99-87-6	
Methylene Chloride	ND	ug/kg	442	25		06/17/11 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1110	25		06/17/11 21:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	111	25		06/17/11 21:07	1634-04-4	
Naphthalene	**786**	ug/kg	111	25		06/17/11 21:07	91-20-3	
n-Propylbenzene	ND	ug/kg	111	25		06/17/11 21:07	103-65-1	
Styrene	ND	ug/kg	111	25		06/17/11 21:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	111	25		06/17/11 21:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	111	25		06/17/11 21:07	79-34-5	
Tetrachloroethene	ND	ug/kg	111	25		06/17/11 21:07	127-18-4	
Toluene	ND	ug/kg	111	25		06/17/11 21:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	111	25		06/17/11 21:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	111	25		06/17/11 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	111	25		06/17/11 21:07	79-00-5	
Trichloroethene	ND	ug/kg	111	25		06/17/11 21:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	111	25		06/17/11 21:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	111	25		06/17/11 21:07	96-18-4	
1,2,4-Trimethylbenzene	**779**	ug/kg	111	25		06/17/11 21:07	95-63-6	
1,3,5-Trimethylbenzene	**688**	ug/kg	111	25		06/17/11 21:07	108-67-8	
Vinyl acetate	ND	ug/kg	1110	25		06/17/11 21:07	108-05-4	
Vinyl chloride	ND	ug/kg	221	25		06/17/11 21:07	75-01-4	
Xylene (Total)	**429**	ug/kg	221	25		06/17/11 21:07	1330-20-7	
m&p-Xylene	ND	ug/kg	221	25		06/17/11 21:07	179601-23-1	
o-Xylene	**322**	ug/kg	111	25		06/17/11 21:07	95-47-6	
Dibromofluoromethane (S)	102	%	70-130	25		06/17/11 21:07	1868-53-7	
Toluene-d8 (S)	99	%	70-130	25		06/17/11 21:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	25		06/17/11 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132	25		06/17/11 21:07	17060-07-0	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: HH-15 (2') **Lab ID: 9296479008** Collected: 06/16/11 14:55 Received: 06/16/11 16:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.0**	%	0.10	1		06/17/11 17:10		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	6.1	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: TW HH-13 **Lab ID: 9296479009** Collected: 06/16/11 15:15 Received: 06/16/11 16:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/17/11 08:46	67-64-1	
Benzene	ND	ug/L	1.0	1		06/17/11 08:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/17/11 08:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/17/11 08:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/17/11 08:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/17/11 08:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/17/11 08:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/17/11 08:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/17/11 08:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/17/11 08:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/17/11 08:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/17/11 08:46	74-87-3	
2-Chlorotoluene	**1220**	ug/L	20.0	20		06/17/11 10:54	95-49-8	
4-Chlorotoluene	**60.8**	ug/L	1.0	1		06/17/11 08:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		06/17/11 08:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/17/11 08:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/17/11 08:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/17/11 08:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/17/11 08:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/17/11 08:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/17/11 08:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/17/11 08:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/17/11 08:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/17/11 08:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/17/11 08:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/17/11 08:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/17/11 08:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/17/11 08:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/17/11 08:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/17/11 08:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/17/11 08:46	108-20-3	
Ethylbenzene	**2.4**	ug/L	1.0	1		06/17/11 08:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/17/11 08:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/17/11 08:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/17/11 08:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/17/11 08:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/17/11 08:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/17/11 08:46	1634-04-4	
Naphthalene	**12.2**	ug/L	1.0	1		06/17/11 08:46	91-20-3	
Styrene	ND	ug/L	1.0	1		06/17/11 08:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/17/11 08:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/17/11 08:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/17/11 08:46	127-18-4	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296479

Sample: TW HH-13 **Lab ID: 9296479009** Collected: 06/16/11 15:15 Received: 06/16/11 16:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	**1.9**	ug/L	1.0	1		06/17/11 08:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/17/11 08:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/17/11 08:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/17/11 08:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/17/11 08:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/17/11 08:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/17/11 08:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/17/11 08:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/17/11 08:46	75-01-4	
Xylene (Total)	**49.0**	ug/L	2.0	1		06/17/11 08:46	1330-20-7	
m&p-Xylene	**20.8**	ug/L	2.0	1		06/17/11 08:46	179601-23-1	
o-Xylene	**28.2**	ug/L	1.0	1		06/17/11 08:46	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		06/17/11 08:46	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		06/17/11 08:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		06/17/11 08:46	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		06/17/11 08:46	2037-26-5	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: MPRP/8570 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

METHOD BLANK: 622503 Matrix: Solid
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.50	06/18/11 17:19	
Arsenic	mg/kg	ND	0.50	06/18/11 17:19	
Barium	mg/kg	ND	0.50	06/18/11 17:19	
Beryllium	mg/kg	ND	0.10	06/18/11 17:19	
Cadmium	mg/kg	ND	0.10	06/18/11 17:19	
Chromium	mg/kg	ND	0.50	06/18/11 17:19	
Copper	mg/kg	ND	0.50	06/18/11 17:19	
Lead	mg/kg	ND	0.50	06/18/11 17:19	
Manganese	mg/kg	ND	0.50	06/18/11 17:19	
Nickel	mg/kg	ND	0.50	06/18/11 17:19	
Selenium	mg/kg	ND	1.0	06/18/11 17:19	
Silver	mg/kg	ND	0.50	06/18/11 17:19	
Thallium	mg/kg	ND	1.0	06/18/11 17:19	
Zinc	mg/kg	ND	1.0	06/18/11 17:19	

LABORATORY CONTROL SAMPLE: 622504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	48.4	97	80-120	
Arsenic	mg/kg	50	48.8	98	80-120	
Barium	mg/kg	50	49.2	98	80-120	
Beryllium	mg/kg	50	50.8	102	80-120	
Cadmium	mg/kg	50	49.0	98	80-120	
Chromium	mg/kg	50	49.3	99	80-120	
Copper	mg/kg	50	48.6	97	80-120	
Lead	mg/kg	50	49.0	98	80-120	
Manganese	mg/kg	50	48.2	96	80-120	
Nickel	mg/kg	50	49.3	99	80-120	
Selenium	mg/kg	50	48.2	96	80-120	
Silver	mg/kg	25	24.4	98	80-120	
Thallium	mg/kg	50	47.4	95	80-120	
Zinc	mg/kg	50	49.7	99	80-120	

MATRIX SPIKE SAMPLE: 622505

Parameter	Units	9295638033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	ND	52.8	26.0	48	75-125	M0
Arsenic	mg/kg	49.4	52.8	89.1	75	75-125	
Barium	mg/kg	302	52.8	310	15	75-125	M0
Beryllium	mg/kg	2.6	52.8	50.3	90	75-125	

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9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

MATRIX SPIKE SAMPLE: 622505

Parameter	Units	9295638033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	1.1	52.8	45.1	83	75-125	
Chromium	mg/kg	13.2	52.8	53.0	75	75-125	
Copper	mg/kg	16.9	52.8	67.9	96	75-125	
Lead	mg/kg	8.5	52.8	49.9	78	75-125	
Manganese	mg/kg	378	52.8	378	0	75-125	M0
Nickel	mg/kg	8.0	52.8	50.6	81	75-125	
Selenium	mg/kg	4.5	52.8	47.5	81	75-125	
Silver	mg/kg	ND	26.4	23.2	87	75-125	
Thallium	mg/kg	ND	52.8	39.0	73	75-125	M0
Zinc	mg/kg	67.5	52.8	125	108	75-125	

SAMPLE DUPLICATE: 622506

Parameter	Units	9295638034 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	mg/kg	ND	ND		20	
Arsenic	mg/kg	1.0	2.4	80	20	R1
Barium	mg/kg	42.4	41.0	3	20	
Beryllium	mg/kg	0.27	0.42	44	20	R1
Cadmium	mg/kg	ND	ND		20	
Chromium	mg/kg	18.9	13.6	33	20	R1
Copper	mg/kg	5.9	6.9	16	20	
Lead	mg/kg	7.5	5.5	30	20	R1
Manganese	mg/kg	56.8	68.1	18	20	
Nickel	mg/kg	3.2	2.7	19	20	
Selenium	mg/kg	ND	2.0		20	
Silver	mg/kg	ND	ND		20	
Thallium	mg/kg	ND	ND		20	
Zinc	mg/kg	26.4	27.0	2	20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: MERP/3554 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

METHOD BLANK: 622291 Matrix: Solid
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	06/18/11 12:05	

LABORATORY CONTROL SAMPLE: 622292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.062	93	80-120	

MATRIX SPIKE SAMPLE: 622293

Parameter	Units	9295638032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.048	0.028	56	75-125	M0

MATRIX SPIKE SAMPLE: 622295

Parameter	Units	9296420007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.0092	.048	0.051	88	75-125	

SAMPLE DUPLICATE: 622294

Parameter	Units	9295638033 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.012	0.014	16	20	

SAMPLE DUPLICATE: 622296

Parameter	Units	9296420008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.011	0.0083	26	20	R1

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: MSV/15693
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9296479009

METHOD BLANK: 621866
Matrix: Water
Associated Lab Samples: 9296479009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,1-Dichloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,1-Dichloroethene	ug/L	ND	1.0	06/16/11 21:46	
1,1-Dichloropropene	ug/L	ND	1.0	06/16/11 21:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/16/11 21:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	06/16/11 21:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/16/11 21:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
1,2-Dichloroethane	ug/L	ND	1.0	06/16/11 21:46	
1,2-Dichloropropane	ug/L	ND	1.0	06/16/11 21:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
1,3-Dichloropropane	ug/L	ND	1.0	06/16/11 21:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
2,2-Dichloropropane	ug/L	ND	1.0	06/16/11 21:46	
2-Butanone (MEK)	ug/L	ND	5.0	06/16/11 21:46	
2-Chlorotoluene	ug/L	ND	1.0	06/16/11 21:46	
2-Hexanone	ug/L	ND	5.0	06/16/11 21:46	
4-Chlorotoluene	ug/L	ND	1.0	06/16/11 21:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/16/11 21:46	
Acetone	ug/L	ND	25.0	06/16/11 21:46	
Benzene	ug/L	ND	1.0	06/16/11 21:46	
Bromobenzene	ug/L	ND	1.0	06/16/11 21:46	
Bromochloromethane	ug/L	ND	1.0	06/16/11 21:46	
Bromodichloromethane	ug/L	ND	1.0	06/16/11 21:46	
Bromoform	ug/L	ND	1.0	06/16/11 21:46	
Bromomethane	ug/L	ND	2.0	06/16/11 21:46	
Carbon tetrachloride	ug/L	ND	1.0	06/16/11 21:46	
Chlorobenzene	ug/L	ND	1.0	06/16/11 21:46	
Chloroethane	ug/L	ND	1.0	06/16/11 21:46	
Chloroform	ug/L	ND	1.0	06/16/11 21:46	
Chloromethane	ug/L	ND	1.0	06/16/11 21:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/16/11 21:46	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/16/11 21:46	
Dibromochloromethane	ug/L	ND	1.0	06/16/11 21:46	
Dibromomethane	ug/L	ND	1.0	06/16/11 21:46	
Dichlorodifluoromethane	ug/L	ND	1.0	06/16/11 21:46	
Diisopropyl ether	ug/L	ND	1.0	06/16/11 21:46	
Ethylbenzene	ug/L	ND	1.0	06/16/11 21:46	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

METHOD BLANK: 621866 Matrix: Water

Associated Lab Samples: 9296479009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/16/11 21:46	
m&p-Xylene	ug/L	ND	2.0	06/16/11 21:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/16/11 21:46	
Methylene Chloride	ug/L	ND	2.0	06/16/11 21:46	
Naphthalene	ug/L	ND	1.0	06/16/11 21:46	
o-Xylene	ug/L	ND	1.0	06/16/11 21:46	
p-Isopropyltoluene	ug/L	ND	1.0	06/16/11 21:46	
Styrene	ug/L	ND	1.0	06/16/11 21:46	
Tetrachloroethene	ug/L	ND	1.0	06/16/11 21:46	
Toluene	ug/L	ND	1.0	06/16/11 21:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/16/11 21:46	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/16/11 21:46	
Trichloroethene	ug/L	ND	1.0	06/16/11 21:46	
Trichlorofluoromethane	ug/L	ND	1.0	06/16/11 21:46	
Vinyl acetate	ug/L	ND	2.0	06/16/11 21:46	
Vinyl chloride	ug/L	ND	1.0	06/16/11 21:46	
Xylene (Total)	ug/L	ND	2.0	06/16/11 21:46	
1,2-Dichloroethane-d4 (S)	%	109	70-130	06/16/11 21:46	
4-Bromofluorobenzene (S)	%	96	70-130	06/16/11 21:46	
Dibromofluoromethane (S)	%	103	70-130	06/16/11 21:46	
Toluene-d8 (S)	%	99	70-130	06/16/11 21:46	

LABORATORY CONTROL SAMPLE: 621867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,1-Trichloroethane	ug/L	50	45.9	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethene	ug/L	50	47.0	94	70-132	
1,1-Dichloropropene	ug/L	50	44.9	90	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	70-135	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.0	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	70-130	
1,2-Dichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dichloroethane	ug/L	50	50.6	101	70-130	
1,2-Dichloropropane	ug/L	50	50.1	100	70-130	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,3-Dichloropropane	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
2,2-Dichloropropane	ug/L	50	54.0	108	58-145	
2-Butanone (MEK)	ug/L	100	102	102	70-145	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

LABORATORY CONTROL SAMPLE: 621867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	51.7	103	70-130	
2-Hexanone	ug/L	100	112	112	70-144	
4-Chlorotoluene	ug/L	50	53.1	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	70-140	
Acetone	ug/L	100	104	104	50-175	
Benzene	ug/L	50	46.8	94	70-130	
Bromobenzene	ug/L	50	49.4	99	70-130	
Bromochloromethane	ug/L	50	45.4	91	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	53.6	107	70-130	
Bromomethane	ug/L	50	52.4	105	54-130	
Carbon tetrachloride	ug/L	50	43.5	87	70-132	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	47.8	96	64-134	
Chloroform	ug/L	50	47.1	94	70-130	
Chloromethane	ug/L	50	48.9	98	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.2	110	70-130	
Dibromochloromethane	ug/L	50	51.0	102	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	43.0	86	56-130	
Diisopropyl ether	ug/L	50	51.4	103	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylene Chloride	ug/L	50	54.0	108	63-130	
Naphthalene	ug/L	50	52.2	104	70-138	
o-Xylene	ug/L	50	53.0	106	70-130	
p-Isopropyltoluene	ug/L	50	53.7	107	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	47.8	96	70-130	
Toluene	ug/L	50	48.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.6	109	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	44.5	89	62-133	
Vinyl acetate	ug/L	100	114	114	66-157	
Vinyl chloride	ug/L	50	49.2	98	69-130	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621868 621869

Parameter	Units	9296243005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	53.1	52.4	106	105	70-166	1	30	
Benzene	ug/L	ND	50	50	56.0	55.7	112	111	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	53.9	54.0	108	108	70-146	0	30	
Toluene	ug/L	ND	50	50	54.6	54.7	109	109	70-155	0	30	
Trichloroethene	ug/L	ND	50	50	53.1	53.0	106	106	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						113	115	70-130			
4-Bromofluorobenzene (S)	%						94	92	70-130			
Dibromofluoromethane (S)	%						103	104	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: MSV/15704
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9296479008

METHOD BLANK: 622417
Matrix: Solid
Associated Lab Samples: 9296479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,3-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
2,2-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
2-Butanone (MEK)	ug/kg	ND	100	06/17/11 14:26	
2-Chlorotoluene	ug/kg	ND	5.0	06/17/11 14:26	
2-Hexanone	ug/kg	ND	50.0	06/17/11 14:26	
4-Chlorotoluene	ug/kg	ND	5.0	06/17/11 14:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	06/17/11 14:26	
Acetone	ug/kg	ND	100	06/17/11 14:26	
Benzene	ug/kg	ND	5.0	06/17/11 14:26	
Bromobenzene	ug/kg	ND	5.0	06/17/11 14:26	
Bromochloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Bromodichloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Bromoform	ug/kg	ND	5.0	06/17/11 14:26	
Bromomethane	ug/kg	ND	10.0	06/17/11 14:26	
Carbon tetrachloride	ug/kg	ND	5.0	06/17/11 14:26	
Chlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
Chloroethane	ug/kg	ND	10.0	06/17/11 14:26	
Chloroform	ug/kg	ND	5.0	06/17/11 14:26	
Chloromethane	ug/kg	ND	10.0	06/17/11 14:26	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
Dibromochloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Dibromomethane	ug/kg	ND	5.0	06/17/11 14:26	
Dichlorodifluoromethane	ug/kg	ND	10.0	06/17/11 14:26	

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

METHOD BLANK: 622417 Matrix: Solid

Associated Lab Samples: 9296479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	06/17/11 14:26	
Ethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/17/11 14:26	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/17/11 14:26	
m&p-Xylene	ug/kg	ND	10.0	06/17/11 14:26	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/17/11 14:26	
Methylene Chloride	ug/kg	ND	20.0	06/17/11 14:26	
n-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
n-Propylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Naphthalene	ug/kg	ND	5.0	06/17/11 14:26	
o-Xylene	ug/kg	ND	5.0	06/17/11 14:26	
p-Isopropyltoluene	ug/kg	ND	5.0	06/17/11 14:26	
sec-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Styrene	ug/kg	ND	5.0	06/17/11 14:26	
tert-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Tetrachloroethene	ug/kg	ND	5.0	06/17/11 14:26	
Toluene	ug/kg	ND	5.0	06/17/11 14:26	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
Trichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
Trichlorofluoromethane	ug/kg	ND	5.0	06/17/11 14:26	
Vinyl acetate	ug/kg	ND	50.0	06/17/11 14:26	
Vinyl chloride	ug/kg	ND	10.0	06/17/11 14:26	
Xylene (Total)	ug/kg	ND	10.0	06/17/11 14:26	
1,2-Dichloroethane-d4 (S)	%	96	70-132	06/17/11 14:26	
4-Bromofluorobenzene (S)	%	96	70-130	06/17/11 14:26	
Dibromofluoromethane (S)	%	94	70-130	06/17/11 14:26	
Toluene-d8 (S)	%	101	70-130	06/17/11 14:26	

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.9	108	70-131	
1,1,1-Trichloroethane	ug/kg	50	49.7	99	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.4	105	70-130	
1,1,2-Trichloroethane	ug/kg	50	50.0	100	70-132	
1,1-Dichloroethane	ug/kg	50	49.3	99	70-143	
1,1-Dichloroethene	ug/kg	50	47.7	95	70-137	
1,1-Dichloropropene	ug/kg	50	45.1	90	70-135	
1,2,3-Trichlorobenzene	ug/kg	50	50.5	101	69-153	
1,2,3-Trichloropropane	ug/kg	50	48.4	97	70-130	
1,2,4-Trichlorobenzene	ug/kg	50	50.2	100	55-171	
1,2,4-Trimethylbenzene	ug/kg	50	49.4	99	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50	43.7	87	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	52.2	104	70-130	

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	50.1	100	70-140	
1,2-Dichloroethane	ug/kg	50	48.1	96	70-137	
1,2-Dichloropropane	ug/kg	50	50.5	101	70-133	
1,3,5-Trimethylbenzene	ug/kg	50	48.6	97	70-143	
1,3-Dichlorobenzene	ug/kg	50	50.0	100	70-144	
1,3-Dichloropropane	ug/kg	50	50.9	102	70-132	
1,4-Dichlorobenzene	ug/kg	50	47.8	96	70-142	
2,2-Dichloropropane	ug/kg	50	49.5	99	68-152	
2-Butanone (MEK)	ug/kg	100	101	101	70-149	
2-Chlorotoluene	ug/kg	50	49.2	98	70-141	
2-Hexanone	ug/kg	100	105	105	70-149	
4-Chlorotoluene	ug/kg	50	51.0	102	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.8	100	70-153	
Acetone	ug/kg	100	86.7J	87	70-157	
Benzene	ug/kg	50	46.8	94	70-130	
Bromobenzene	ug/kg	50	50.3	101	70-141	
Bromochloromethane	ug/kg	50	48.2	96	70-149	
Bromodichloromethane	ug/kg	50	49.3	99	70-130	
Bromoform	ug/kg	50	48.2	96	70-131	
Bromomethane	ug/kg	50	47.6	95	64-136	
Carbon tetrachloride	ug/kg	50	50.7	101	70-154	
Chlorobenzene	ug/kg	50	51.1	102	70-135	
Chloroethane	ug/kg	50	49.4	99	68-151	
Chloroform	ug/kg	50	52.0	104	70-130	
Chloromethane	ug/kg	50	44.4	89	70-132	
cis-1,2-Dichloroethene	ug/kg	50	48.4	97	70-140	
cis-1,3-Dichloropropene	ug/kg	50	51.5	103	70-137	
Dibromochloromethane	ug/kg	50	49.3	99	70-130	
Dibromomethane	ug/kg	50	50.9	102	70-136	
Dichlorodifluoromethane	ug/kg	50	55.6	111	36-148	
Diisopropyl ether	ug/kg	50	49.5	99	70-139	
Ethylbenzene	ug/kg	50	47.8	96	70-137	
Hexachloro-1,3-butadiene	ug/kg	50	48.6	97	70-145	
Isopropylbenzene (Cumene)	ug/kg	50	49.7	99	70-141	
m&p-Xylene	ug/kg	100	98.0	98	70-140	
Methyl-tert-butyl ether	ug/kg	50	50.6	101	45-150	
Methylene Chloride	ug/kg	50	42.9	86	70-133	
n-Butylbenzene	ug/kg	50	49.2	98	65-155	
n-Propylbenzene	ug/kg	50	47.9	96	70-148	
Naphthalene	ug/kg	50	51.6	103	70-148	
o-Xylene	ug/kg	50	49.9	100	70-141	
p-Isopropyltoluene	ug/kg	50	48.8	98	70-148	
sec-Butylbenzene	ug/kg	50	49.3	99	70-145	
Styrene	ug/kg	50	52.8	106	70-138	
tert-Butylbenzene	ug/kg	50	49.5	99	70-143	
Tetrachloroethene	ug/kg	50	49.9	100	70-140	
Toluene	ug/kg	50	45.8	92	70-130	
trans-1,2-Dichloroethene	ug/kg	50	48.0	96	70-136	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	47.3	95	70-138	
Trichloroethene	ug/kg	50	49.6	99	70-132	
Trichlorofluoromethane	ug/kg	50	45.6	91	69-134	
Vinyl acetate	ug/kg	100	75.4	75	24-161	
Vinyl chloride	ug/kg	50	48.7	97	55-140	
Xylene (Total)	ug/kg	150	148	99	70-141	
1,2-Dichloroethane-d4 (S)	%			88	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 623097

Parameter	Units	9296410010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	46.8	45.2	97	49-180	
Benzene	ug/kg	ND	46.8	45.9	98	50-166	
Chlorobenzene	ug/kg	ND	46.8	40.9	87	43-169	
Toluene	ug/kg	ND	46.8	42.4	91	52-163	
Trichloroethene	ug/kg	ND	46.8	45.4	97	49-167	
1,2-Dichloroethane-d4 (S)	%				92	70-132	
4-Bromofluorobenzene (S)	%				88	70-130	
Dibromofluoromethane (S)	%				98	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	92	98	21		
4-Bromofluorobenzene (S)	%	96	96	28		
Dibromofluoromethane (S)	%	94	99	23		
Toluene-d8 (S)	%	100	105	23		

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Asheville, NC 28804
(828)254-7176

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: MSV/15718
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9296479007

METHOD BLANK: 623190
Matrix: Solid
Associated Lab Samples: 9296479007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,1-Dichloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,1-Dichloroethene	ug/kg	ND	5.0	06/20/11 11:13	
1,1-Dichloropropene	ug/kg	ND	5.0	06/20/11 11:13	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/20/11 11:13	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/20/11 11:13	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/20/11 11:13	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,2-Dichloroethane	ug/kg	ND	5.0	06/20/11 11:13	
1,2-Dichloropropane	ug/kg	ND	5.0	06/20/11 11:13	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
1,3-Dichloropropane	ug/kg	ND	5.0	06/20/11 11:13	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
2,2-Dichloropropane	ug/kg	ND	5.0	06/20/11 11:13	
2-Butanone (MEK)	ug/kg	ND	100	06/20/11 11:13	
2-Chlorotoluene	ug/kg	ND	5.0	06/20/11 11:13	
2-Hexanone	ug/kg	ND	50.0	06/20/11 11:13	
4-Chlorotoluene	ug/kg	ND	5.0	06/20/11 11:13	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	06/20/11 11:13	
Acetone	ug/kg	ND	100	06/20/11 11:13	
Benzene	ug/kg	ND	5.0	06/20/11 11:13	
Bromobenzene	ug/kg	ND	5.0	06/20/11 11:13	
Bromochloromethane	ug/kg	ND	5.0	06/20/11 11:13	
Bromodichloromethane	ug/kg	ND	5.0	06/20/11 11:13	
Bromoform	ug/kg	ND	5.0	06/20/11 11:13	
Bromomethane	ug/kg	ND	10.0	06/20/11 11:13	
Carbon tetrachloride	ug/kg	ND	5.0	06/20/11 11:13	
Chlorobenzene	ug/kg	ND	5.0	06/20/11 11:13	
Chloroethane	ug/kg	ND	10.0	06/20/11 11:13	
Chloroform	ug/kg	ND	5.0	06/20/11 11:13	
Chloromethane	ug/kg	ND	10.0	06/20/11 11:13	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/20/11 11:13	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/20/11 11:13	
Dibromochloromethane	ug/kg	ND	5.0	06/20/11 11:13	
Dibromomethane	ug/kg	ND	5.0	06/20/11 11:13	
Dichlorodifluoromethane	ug/kg	ND	10.0	06/20/11 11:13	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

METHOD BLANK: 623190 Matrix: Solid

Associated Lab Samples: 9296479007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	06/20/11 11:13	
Ethylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/20/11 11:13	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/20/11 11:13	
m&p-Xylene	ug/kg	ND	10.0	06/20/11 11:13	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/20/11 11:13	
Methylene Chloride	ug/kg	ND	20.0	06/20/11 11:13	
n-Butylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
n-Propylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
Naphthalene	ug/kg	ND	5.0	06/20/11 11:13	
o-Xylene	ug/kg	ND	5.0	06/20/11 11:13	
p-Isopropyltoluene	ug/kg	ND	5.0	06/20/11 11:13	
sec-Butylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
Styrene	ug/kg	ND	5.0	06/20/11 11:13	
tert-Butylbenzene	ug/kg	ND	5.0	06/20/11 11:13	
Tetrachloroethene	ug/kg	ND	5.0	06/20/11 11:13	
Toluene	ug/kg	ND	5.0	06/20/11 11:13	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/20/11 11:13	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/20/11 11:13	
Trichloroethene	ug/kg	ND	5.0	06/20/11 11:13	
Trichlorofluoromethane	ug/kg	ND	5.0	06/20/11 11:13	
Vinyl acetate	ug/kg	ND	50.0	06/20/11 11:13	
Vinyl chloride	ug/kg	ND	10.0	06/20/11 11:13	
Xylene (Total)	ug/kg	ND	10.0	06/20/11 11:13	
1,2-Dichloroethane-d4 (S)	%	98	70-132	06/20/11 11:13	
4-Bromofluorobenzene (S)	%	101	70-130	06/20/11 11:13	
Dibromofluoromethane (S)	%	100	70-130	06/20/11 11:13	
Toluene-d8 (S)	%	103	70-130	06/20/11 11:13	

LABORATORY CONTROL SAMPLE: 623191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.0	98	70-131	
1,1,1-Trichloroethane	ug/kg	50	46.9	94	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/kg	50	43.9	88	70-132	
1,1-Dichloroethane	ug/kg	50	45.3	91	70-143	
1,1-Dichloroethene	ug/kg	50	45.9	92	70-137	
1,1-Dichloropropene	ug/kg	50	44.4	89	70-135	
1,2,3-Trichlorobenzene	ug/kg	50	48.5	97	69-153	
1,2,3-Trichloropropane	ug/kg	50	41.9	84	70-130	
1,2,4-Trichlorobenzene	ug/kg	50	51.9	104	55-171	
1,2,4-Trimethylbenzene	ug/kg	50	49.2	98	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50	41.9	84	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	46.4	93	70-130	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

LABORATORY CONTROL SAMPLE: 623191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	46.2	92	70-140	
1,2-Dichloroethane	ug/kg	50	43.0	86	70-137	
1,2-Dichloropropane	ug/kg	50	43.9	88	70-133	
1,3,5-Trimethylbenzene	ug/kg	50	48.1	96	70-143	
1,3-Dichlorobenzene	ug/kg	50	48.1	96	70-144	
1,3-Dichloropropane	ug/kg	50	45.7	91	70-132	
1,4-Dichlorobenzene	ug/kg	50	47.8	96	70-142	
2,2-Dichloropropane	ug/kg	50	49.7	99	68-152	
2-Butanone (MEK)	ug/kg	100	91.5J	92	70-149	
2-Chlorotoluene	ug/kg	50	48.3	97	70-141	
2-Hexanone	ug/kg	100	100	100	70-149	
4-Chlorotoluene	ug/kg	50	50.4	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	93.5	93	70-153	
Acetone	ug/kg	100	85.9J	86	70-157	
Benzene	ug/kg	50	42.4	85	70-130	
Bromobenzene	ug/kg	50	46.2	92	70-141	
Bromochloromethane	ug/kg	50	42.3	85	70-149	
Bromodichloromethane	ug/kg	50	42.9	86	70-130	
Bromoform	ug/kg	50	44.9	90	70-131	
Bromomethane	ug/kg	50	37.5	75	64-136	
Carbon tetrachloride	ug/kg	50	48.9	98	70-154	
Chlorobenzene	ug/kg	50	48.4	97	70-135	
Chloroethane	ug/kg	50	43.9	88	68-151	
Chloroform	ug/kg	50	47.9	96	70-130	
Chloromethane	ug/kg	50	41.9	84	70-132	
cis-1,2-Dichloroethene	ug/kg	50	44.3	89	70-140	
cis-1,3-Dichloropropene	ug/kg	50	48.2	96	70-137	
Dibromochloromethane	ug/kg	50	44.4	89	70-130	
Dibromomethane	ug/kg	50	44.1	88	70-136	
Dichlorodifluoromethane	ug/kg	50	54.3	109	36-148	
Diisopropyl ether	ug/kg	50	45.8	92	70-139	
Ethylbenzene	ug/kg	50	47.4	95	70-137	
Hexachloro-1,3-butadiene	ug/kg	50	50.0	100	70-145	
Isopropylbenzene (Cumene)	ug/kg	50	49.9	100	70-141	
m&p-Xylene	ug/kg	100	97.9	98	70-140	
Methyl-tert-butyl ether	ug/kg	50	44.6	89	45-150	
Methylene Chloride	ug/kg	50	39.3	79	70-133	
n-Butylbenzene	ug/kg	50	52.2	104	65-155	
n-Propylbenzene	ug/kg	50	49.5	99	70-148	
Naphthalene	ug/kg	50	45.1	90	70-148	
o-Xylene	ug/kg	50	48.8	98	70-141	
p-Isopropyltoluene	ug/kg	50	49.8	100	70-148	
sec-Butylbenzene	ug/kg	50	49.6	99	70-145	
Styrene	ug/kg	50	50.8	102	70-138	
tert-Butylbenzene	ug/kg	50	47.8	96	70-143	
Tetrachloroethene	ug/kg	50	50.4	101	70-140	
Toluene	ug/kg	50	42.9	86	70-130	
trans-1,2-Dichloroethene	ug/kg	50	44.7	89	70-136	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

LABORATORY CONTROL SAMPLE: 623191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	43.8	88	70-138	
Trichloroethene	ug/kg	50	46.0	92	70-132	
Trichlorofluoromethane	ug/kg	50	42.5	85	69-134	
Vinyl acetate	ug/kg	100	120	120	24-161	
Vinyl chloride	ug/kg	50	43.9	88	55-140	
Xylene (Total)	ug/kg	150	147	98	70-141	
1,2-Dichloroethane-d4 (S)	%			90	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: PMST/4000 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

SAMPLE DUPLICATE: 622339

Parameter	Units	9296420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	15.5	27	25	R1

SAMPLE DUPLICATE: 622414

Parameter	Units	9296393002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.4	17.5	5	25	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296479

QC Batch: WETA/9931 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

METHOD BLANK: 623030 Matrix: Solid
Associated Lab Samples: 9296479001, 9296479002, 9296479003, 9296479004, 9296479005, 9296479006, 9296479007, 9296479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.0	06/20/11 02:15	N2

LABORATORY CONTROL SAMPLE: 623031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	50	50.7	101	90-110	N2

MATRIX SPIKE SAMPLE: 623032

Parameter	Units	9296420004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	56.6	35.6	62	75-125	M1,N2

MATRIX SPIKE SAMPLE: 623036

Parameter	Units	9296420005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	52.7	18.9	36	75-125	M1,N2

SAMPLE DUPLICATE: 623037

Parameter	Units	9296420006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	N2

SAMPLE DUPLICATE: 623038

Parameter	Units	9296420007 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	N2

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QUALIFIERS

Project: PPA-040
Pace Project No.: 9296479

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC accreditation for this parameter.
R1	RPD value was outside control limits.

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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.

Page: of

1474585

Section A Required Client Information:

Company: Hart + Hickman
Address: 7923 S. Tryon St, Charlotte NC
Email To: Shart@harthickman.com
Phone: 704-546-0007 Fax:
Requested Due Date/TAT: 48hr 6/20/11

Section B Required Project Information:

Report To: Shart@harthickman.com
Copy To: jlopez@harthickman.com
Purchase Order No.: PPA-040
Project Name:
Project Number: PPA040

Section C Invoice Information:

Attention: Cynthia Wells
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE (Grab time)	COLLECTED 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): HSL Metals + WCS	Barium	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HH-2 (15')	SL		6/6/11	1130													X				9296479001
2	HH-21 (1')	SL		6/6/11	1230													X	X			006
3	HH-1 (15')	SL		6/6/11	1320													X				002
4	HH-16 (10')	SL		6/6/11	1440													X		X		007
5	HH-15 (2')	SL		6/6/11	1455													X		X		008
6	TW HH-13	WT		6/6/11	1515															X		009
7	BG-1 (15')	SL		6/6/11	1510													X				003
8	BG-2 (5')	SL		6/6/11	1545													X				004
9	BG-3 (1')	SL		6/6/11	1535													X				005
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
HSL metals should include Antimony, arsenic, beryllium, cadmium, total cr, Hex Cr, Cu, Pb, Manganese, Hg, Selenium, Silver, Thallium, and Zn	[illegible] H+H			M Cochran	6-16-11	1620				
	M Cochran	6-16	1650	[illegible]	6/16/11	16:30	3.8	Y	~	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

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

*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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hunt & Hickman Project # 9296479

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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#2 -80344039 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Optional
Proj. Due Date:
Proj. Name:

Temp Correction Factor: Add / (Subtract) 0.5 C

Corrected Cooler Temp.: 3.8° C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/16/11

				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. 48hr TAT
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):_____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 6/16/11 **SRF Review:** JG **Date:** 6/17/11

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)

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

June 20, 2011

Mr. Steve Hart
Hart & Hickman
2923 South Tryon Street
Charlotte, NC 28203

RE: Project: PPA-040
Pace Project No.: 9296420

Dear Mr. Hart:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PPA-040
Pace Project No.: 9296420

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: PPA-040
Pace Project No.: 9296420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9296420001	**HH-3 (4')**	Solid	06/15/11 18:10	06/16/11 11:50
9296420002	**HH-4 (2')**	Solid	06/15/11 18:25	06/16/11 11:50
9296420003	**HH-10 (4')**	Solid	06/15/11 18:20	06/16/11 11:50
9296420004	**HH-7 (2')**	Solid	06/16/11 09:10	06/16/11 11:50
9296420005	**HH-8 (2')**	Solid	06/16/11 09:15	06/16/11 11:50
9296420006	**HH-12 (4')**	Solid	06/16/11 09:20	06/16/11 11:50
9296420007	**HH-13 (3')**	Solid	06/16/11 09:40	06/16/11 11:50
9296420008	**HH-14 (2')**	Solid	06/16/11 10:30	06/16/11 11:50

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SAMPLE ANALYTE COUNT

Project: PPA-040
Pace Project No.: 9296420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9296420001	**HH-3 (4')**	EPA 8015 Modified	CAH	2	PASI-C
		9071B	CLW	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
9296420002	**HH-4 (2')**	EPA 8015 Modified	CAH	2	PASI-C
		9071B	CLW	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
9296420003	**HH-10 (4')**	EPA 8015 Modified	CAH	2	PASI-C
		9071B	CLW	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
9296420004	**HH-7 (2')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296420005	**HH-8 (2')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296420006	**HH-12 (4')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296420007	**HH-13 (3')**	EPA 8015 Modified	CAH	2	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A

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Asheville, NC 28804
(828)254-7176

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

SAMPLE ANALYTE COUNT

Project: PPA-040
Pace Project No.: 9296420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9296420008	**HH-14 (2')**	9071B	CLW	1	PASI-C
		EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
		EPA 7196	LEP	1	PASI-A

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-3 (4') **Lab ID: 9296420001** Collected: 06/15/11 18:10 Received: 06/16/11 11:50 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	**4050**	mg/kg	113	20	06/16/11 15:00	06/20/11 12:09	68334-30-5	
n-Pentacosane (S)	0	%	41-119	20	06/16/11 15:00	06/20/11 12:09	629-99-2	S4
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	**7180**	mg/kg	79.4	1	06/17/11 11:09	06/17/11 13:24		
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**9.5**	mg/kg	5.8	1	06/17/11 16:45	06/18/11 00:53	8006-61-9	
4-Bromofluorobenzene (S)	118	%	70-167	1	06/17/11 16:45	06/18/11 00:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.8**	%	0.10	1		06/17/11 17:06		

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-4 (2') **Lab ID: 9296420002** Collected: 06/15/11 18:25 Received: 06/16/11 11:50 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	**3000**	mg/kg	50.9	10	06/16/11 15:00	06/20/11 12:09	68334-30-5	
n-Pentacosane (S)	0	%	41-119	10	06/16/11 15:00	06/20/11 12:09	629-99-2	S4
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	**5230**	mg/kg	71.2	1	06/17/11 11:09	06/17/11 13:24		
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	4.8	1	06/17/11 16:45	06/18/11 01:18	8006-61-9	
4-Bromofluorobenzene (S)	111	%	70-167	1	06/17/11 16:45	06/18/11 01:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**1.7**	%	0.10	1		06/17/11 17:06		

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(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-10 (4') **Lab ID: 9296420003** Collected: 06/15/11 18:20 Received: 06/16/11 11:50 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	**901**	mg/kg	29.9	5	06/16/11 15:00	06/20/11 12:38	68334-30-5	
n-Pentacosane (S)	0	%	41-119	5	06/16/11 15:00	06/20/11 12:38	629-99-2	S4
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	**3120**	mg/kg	83.7	1	06/17/11 11:09	06/17/11 13:24		
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.4	1	06/17/11 16:45	06/18/11 01:43	8006-61-9	
4-Bromofluorobenzene (S)	103	%	70-167	1	06/17/11 16:45	06/18/11 01:43	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.4**	%	0.10	1		06/17/11 17:07		

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(336)623-8921

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(704)875-9092

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-7 (2') **Lab ID: 9296420004** Collected: 06/16/11 09:10 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-36-0	
Arsenic	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-38-2	
Beryllium	**0.87**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 12:01	7440-41-7	
Cadmium	**1.7**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 12:01	7440-43-9	
Chromium	**18.7**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-47-3	
Copper	**40.7**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-50-8	
Lead	**5.4**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7439-92-1	
Manganese	**185**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7439-96-5	
Nickel	**7.3**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-02-0	
Selenium	**2.0**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:01	7782-49-2	
Silver	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 12:01	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:01	7440-28-0	
Zinc	**51.4**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:01	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0057**	mg/kg	0.0033	1	06/17/11 10:50	06/18/11 12:42	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	83-32-9	
Acenaphthylene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	208-96-8	
Aniline	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	62-53-3	
Anthracene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	207-08-9	
Benzoic Acid	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	65-85-0	
Benzyl alcohol	ND	ug/kg	777	1	06/17/11 06:42	06/17/11 19:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	777	1	06/17/11 06:42	06/17/11 19:48	59-50-7	
4-Chloroaniline	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	108-60-1	
2-Chloronaphthalene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	91-58-7	
2-Chlorophenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	7005-72-3	
Chrysene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	53-70-3	
Dibenzofuran	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	106-46-7	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-7 (2') **Lab ID: 9296420004** Collected: 06/16/11 09:10 Received: 06/16/11 11:50 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							
3,3'-Dichlorobenzidine	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	120-83-2	
Diethylphthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	105-67-9	
Dimethylphthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	777	1	06/17/11 06:42	06/17/11 19:48	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	117-81-7	
Fluoranthene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	206-44-0	
Fluorene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	77-47-4	
Hexachloroethane	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	193-39-5	
Isophorone	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	78-59-1	
1-Methylnaphthalene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48		
Naphthalene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	91-20-3	
2-Nitroaniline	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	88-74-4	
3-Nitroaniline	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	99-09-2	
4-Nitroaniline	ND	ug/kg	777	1	06/17/11 06:42	06/17/11 19:48	100-01-6	
Nitrobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	98-95-3	
2-Nitrophenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	88-75-5	
4-Nitrophenol	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	86-30-6	
Pentachlorophenol	ND	ug/kg	1940	1	06/17/11 06:42	06/17/11 19:48	87-86-5	
Phenanthrene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	85-01-8	
Phenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	108-95-2	
Pyrene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	388	1	06/17/11 06:42	06/17/11 19:48	88-06-2	
Nitrobenzene-d5 (S)	50	%	23-110	1	06/17/11 06:42	06/17/11 19:48	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-110	1	06/17/11 06:42	06/17/11 19:48	321-60-8	
Terphenyl-d14 (S)	56	%	28-110	1	06/17/11 06:42	06/17/11 19:48	1718-51-0	
Phenol-d6 (S)	43	%	22-110	1	06/17/11 06:42	06/17/11 19:48	13127-88-3	
2-Fluorophenol (S)	38	%	13-110	1	06/17/11 06:42	06/17/11 19:48	367-12-4	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-7 (2') **Lab ID: 9296420004** Collected: 06/16/11 09:10 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4,6-Tribromophenol (S)	38	%	27-110	1	06/17/11 06:42	06/17/11 19:48	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	119	1		06/17/11 19:46	67-64-1	
Benzene	ND	ug/kg	6.0	1		06/17/11 19:46	71-43-2	
Bromobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	108-86-1	
Bromochloromethane	ND	ug/kg	6.0	1		06/17/11 19:46	74-97-5	
Bromodichloromethane	ND	ug/kg	6.0	1		06/17/11 19:46	75-27-4	
Bromoform	ND	ug/kg	6.0	1		06/17/11 19:46	75-25-2	
Bromomethane	ND	ug/kg	11.9	1		06/17/11 19:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	119	1		06/17/11 19:46	78-93-3	
n-Butylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.0	1		06/17/11 19:46	56-23-5	
Chlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	108-90-7	
Chloroethane	ND	ug/kg	11.9	1		06/17/11 19:46	75-00-3	
Chloroform	ND	ug/kg	6.0	1		06/17/11 19:46	67-66-3	
Chloromethane	ND	ug/kg	11.9	1		06/17/11 19:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.0	1		06/17/11 19:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.0	1		06/17/11 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.0	1		06/17/11 19:46	96-12-8	
Dibromochloromethane	ND	ug/kg	6.0	1		06/17/11 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.0	1		06/17/11 19:46	106-93-4	
Dibromomethane	ND	ug/kg	6.0	1		06/17/11 19:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.9	1		06/17/11 19:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.0	1		06/17/11 19:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1		06/17/11 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1		06/17/11 19:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.0	1		06/17/11 19:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.0	1		06/17/11 19:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.0	1		06/17/11 19:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.0	1		06/17/11 19:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.0	1		06/17/11 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1		06/17/11 19:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.0	1		06/17/11 19:46	108-20-3	
Ethylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.0	1		06/17/11 19:46	87-68-3	
2-Hexanone	ND	ug/kg	59.7	1		06/17/11 19:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.0	1		06/17/11 19:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.0	1		06/17/11 19:46	99-87-6	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-7 (2') **Lab ID: 9296420004** Collected: 06/16/11 09:10 Received: 06/16/11 11:50 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							
Methylene Chloride	ND	ug/kg	23.9	1		06/17/11 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	59.7	1		06/17/11 19:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.0	1		06/17/11 19:46	1634-04-4	
Naphthalene	ND	ug/kg	6.0	1		06/17/11 19:46	91-20-3	
n-Propylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	103-65-1	
Styrene	ND	ug/kg	6.0	1		06/17/11 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	79-34-5	
Tetrachloroethene	ND	ug/kg	6.0	1		06/17/11 19:46	127-18-4	
Toluene	ND	ug/kg	6.0	1		06/17/11 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1		06/17/11 19:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.0	1		06/17/11 19:46	79-00-5	
Trichloroethene	ND	ug/kg	6.0	1		06/17/11 19:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.0	1		06/17/11 19:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.0	1		06/17/11 19:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	1		06/17/11 19:46	108-67-8	
Vinyl acetate	ND	ug/kg	59.7	1		06/17/11 19:46	108-05-4	
Vinyl chloride	ND	ug/kg	11.9	1		06/17/11 19:46	75-01-4	
Xylene (Total)	ND	ug/kg	11.9	1		06/17/11 19:46	1330-20-7	
m&p-Xylene	ND	ug/kg	11.9	1		06/17/11 19:46	179601-23-1	
o-Xylene	ND	ug/kg	6.0	1		06/17/11 19:46	95-47-6	
Dibromofluoromethane (S)	93	%	70-130	1		06/17/11 19:46	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		06/17/11 19:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		06/17/11 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-132	1		06/17/11 19:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.0**	%	0.10	1		06/17/11 17:07		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.4	1	06/20/11 01:30	06/20/11 02:15	18540-29-9	N2

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-8 (2') **Lab ID: 9296420005** Collected: 06/16/11 09:15 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-36-0	
Arsenic	ND	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-38-2	
Beryllium	**1.3**	mg/kg	0.10	1	06/16/11 17:10	06/17/11 12:06	7440-41-7	
Cadmium	**6.2**	mg/kg	0.10	1	06/16/11 17:10	06/17/11 12:06	7440-43-9	
Chromium	**30.3**	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-47-3	
Copper	**75.1**	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-50-8	
Lead	**13.8**	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7439-92-1	
Manganese	**1800**	mg/kg	5.2	10	06/16/11 17:10	06/17/11 14:58	7439-96-5	
Nickel	**17.9**	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-02-0	
Selenium	**2.8**	mg/kg	1.0	1	06/16/11 17:10	06/17/11 12:06	7782-49-2	
Silver	ND	mg/kg	0.52	1	06/16/11 17:10	06/17/11 12:06	7440-22-4	
Thallium	ND	mg/kg	1.0	1	06/16/11 17:10	06/17/11 12:06	7440-28-0	
Zinc	**26.7**	mg/kg	1.0	1	06/16/11 17:10	06/17/11 12:06	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.010**	mg/kg	0.0057	1	06/17/11 10:50	06/18/11 12:45	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	83-32-9	
Acenaphthylene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	208-96-8	
Aniline	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	62-53-3	
Anthracene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	120-12-7	
Benzo(a)anthracene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	65-85-0	
Benzyl alcohol	ND	ug/kg	780	1	06/17/11 06:42	06/17/11 20:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	780	1	06/17/11 06:42	06/17/11 20:17	59-50-7	
4-Chloroaniline	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	91-58-7	
2-Chlorophenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	7005-72-3	
Chrysene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	53-70-3	
Dibenzofuran	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	106-46-7	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-8 (2') **Lab ID: 9296420005** Collected: 06/16/11 09:15 Received: 06/16/11 11:50 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							
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	120-83-2	
Diethylphthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	105-67-9	
Dimethylphthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	131-11-3	
Di-n-butylphthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	780	1	06/17/11 06:42	06/17/11 20:17	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	606-20-2	
Di-n-octylphthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	117-81-7	
Fluoranthene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	206-44-0	
Fluorene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	87-68-3	
Hexachlorobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	77-47-4	
Hexachloroethane	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	193-39-5	
Isophorone	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	78-59-1	
1-Methylnaphthalene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	90-12-0	
2-Methylnaphthalene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17		
Naphthalene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	99-09-2	
4-Nitroaniline	ND	ug/kg	780	1	06/17/11 06:42	06/17/11 20:17	100-01-6	
Nitrobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	98-95-3	
2-Nitrophenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	06/17/11 06:42	06/17/11 20:17	87-86-5	
Phenanthrene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	85-01-8	
Phenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	108-95-2	
Pyrene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	390	1	06/17/11 06:42	06/17/11 20:17	88-06-2	
Nitrobenzene-d5 (S)	52	%	23-110	1	06/17/11 06:42	06/17/11 20:17	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-110	1	06/17/11 06:42	06/17/11 20:17	321-60-8	
Terphenyl-d14 (S)	64	%	28-110	1	06/17/11 06:42	06/17/11 20:17	1718-51-0	
Phenol-d6 (S)	44	%	22-110	1	06/17/11 06:42	06/17/11 20:17	13127-88-3	
2-Fluorophenol (S)	41	%	13-110	1	06/17/11 06:42	06/17/11 20:17	367-12-4	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-8 (2') **Lab ID: 9296420005** Collected: 06/16/11 09:15 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4,6-Tribromophenol (S)	46	%	27-110	1	06/17/11 06:42	06/17/11 20:17	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	132	1		06/17/11 20:07	67-64-1	
Benzene	ND	ug/kg	6.6	1		06/17/11 20:07	71-43-2	
Bromobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	108-86-1	
Bromochloromethane	ND	ug/kg	6.6	1		06/17/11 20:07	74-97-5	
Bromodichloromethane	ND	ug/kg	6.6	1		06/17/11 20:07	75-27-4	
Bromoform	ND	ug/kg	6.6	1		06/17/11 20:07	75-25-2	
Bromomethane	ND	ug/kg	13.2	1		06/17/11 20:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	132	1		06/17/11 20:07	78-93-3	
n-Butylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.6	1		06/17/11 20:07	56-23-5	
Chlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	108-90-7	
Chloroethane	ND	ug/kg	13.2	1		06/17/11 20:07	75-00-3	
Chloroform	ND	ug/kg	6.6	1		06/17/11 20:07	67-66-3	
Chloromethane	ND	ug/kg	13.2	1		06/17/11 20:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.6	1		06/17/11 20:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.6	1		06/17/11 20:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.6	1		06/17/11 20:07	96-12-8	
Dibromochloromethane	ND	ug/kg	6.6	1		06/17/11 20:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.6	1		06/17/11 20:07	106-93-4	
Dibromomethane	ND	ug/kg	6.6	1		06/17/11 20:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.2	1		06/17/11 20:07	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.6	1		06/17/11 20:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.6	1		06/17/11 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.6	1		06/17/11 20:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.6	1		06/17/11 20:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.6	1		06/17/11 20:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.6	1		06/17/11 20:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.6	1		06/17/11 20:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.6	1		06/17/11 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.6	1		06/17/11 20:07	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.6	1		06/17/11 20:07	108-20-3	
Ethylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.6	1		06/17/11 20:07	87-68-3	
2-Hexanone	ND	ug/kg	65.8	1		06/17/11 20:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.6	1		06/17/11 20:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.6	1		06/17/11 20:07	99-87-6	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-8 (2') **Lab ID: 9296420005** Collected: 06/16/11 09:15 Received: 06/16/11 11:50 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							
Methylene Chloride	ND	ug/kg	26.3	1		06/17/11 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	65.8	1		06/17/11 20:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.6	1		06/17/11 20:07	1634-04-4	
Naphthalene	ND	ug/kg	6.6	1		06/17/11 20:07	91-20-3	
n-Propylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	103-65-1	
Styrene	ND	ug/kg	6.6	1		06/17/11 20:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	79-34-5	
Tetrachloroethene	ND	ug/kg	6.6	1		06/17/11 20:07	127-18-4	
Toluene	ND	ug/kg	6.6	1		06/17/11 20:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.6	1		06/17/11 20:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.6	1		06/17/11 20:07	79-00-5	
Trichloroethene	ND	ug/kg	6.6	1		06/17/11 20:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.6	1		06/17/11 20:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.6	1		06/17/11 20:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.6	1		06/17/11 20:07	108-67-8	
Vinyl acetate	ND	ug/kg	65.8	1		06/17/11 20:07	108-05-4	
Vinyl chloride	ND	ug/kg	13.2	1		06/17/11 20:07	75-01-4	
Xylene (Total)	ND	ug/kg	13.2	1		06/17/11 20:07	1330-20-7	
m&p-Xylene	ND	ug/kg	13.2	1		06/17/11 20:07	179601-23-1	
o-Xylene	ND	ug/kg	6.6	1		06/17/11 20:07	95-47-6	
Dibromofluoromethane (S)	96	%	70-130	1		06/17/11 20:07	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		06/17/11 20:07	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		06/17/11 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132	1		06/17/11 20:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.4**	%	0.10	1		06/17/11 17:07		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	4.6	1	06/20/11 01:30	06/20/11 02:15	18540-29-9	N2

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www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-12 (4') **Lab ID: 9296420006** Collected: 06/16/11 09:20 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-36-0	
Arsenic	ND	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-38-2	
Beryllium	**1.2**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 12:11	7440-41-7	
Cadmium	**5.2**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 12:11	7440-43-9	
Chromium	**22.7**	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-47-3	
Copper	**76.1**	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-50-8	
Lead	**16.3**	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7439-92-1	
Manganese	**2230**	mg/kg	6.0	10	06/16/11 17:10	06/17/11 15:01	7439-96-5	
Nickel	**18.9**	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-02-0	
Selenium	**2.9**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:11	7782-49-2	
Silver	ND	mg/kg	0.60	1	06/16/11 17:10	06/17/11 12:11	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:11	7440-28-0	
Zinc	**25.2**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 12:11	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.011**	mg/kg	0.0048	1	06/17/11 10:50	06/18/11 12:47	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	83-32-9	
Acenaphthylene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	208-96-8	
Aniline	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	62-53-3	
Anthracene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	207-08-9	
Benzoic Acid	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	65-85-0	
Benzyl alcohol	ND	ug/kg	807	1	06/17/11 06:42	06/17/11 20:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	807	1	06/17/11 06:42	06/17/11 20:45	59-50-7	
4-Chloroaniline	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	91-58-7	
2-Chlorophenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	7005-72-3	
Chrysene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	53-70-3	
Dibenzofuran	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	106-46-7	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-12 (4') **Lab ID: 9296420006** Collected: 06/16/11 09:20 Received: 06/16/11 11:50 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							
3,3'-Dichlorobenzidine	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	120-83-2	
Diethylphthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	105-67-9	
Dimethylphthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	807	1	06/17/11 06:42	06/17/11 20:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	117-81-7	
Fluoranthene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	206-44-0	
Fluorene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	77-47-4	
Hexachloroethane	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	193-39-5	
Isophorone	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	78-59-1	
1-Methylnaphthalene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	90-12-0	
2-Methylnaphthalene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45		
Naphthalene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	99-09-2	
4-Nitroaniline	ND	ug/kg	807	1	06/17/11 06:42	06/17/11 20:45	100-01-6	
Nitrobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	98-95-3	
2-Nitrophenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	86-30-6	
Pentachlorophenol	ND	ug/kg	2020	1	06/17/11 06:42	06/17/11 20:45	87-86-5	
Phenanthrene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	85-01-8	
Phenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	108-95-2	
Pyrene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	404	1	06/17/11 06:42	06/17/11 20:45	88-06-2	
Nitrobenzene-d5 (S)	44	%	23-110	1	06/17/11 06:42	06/17/11 20:45	4165-60-0	
2-Fluorobiphenyl (S)	45	%	30-110	1	06/17/11 06:42	06/17/11 20:45	321-60-8	
Terphenyl-d14 (S)	63	%	28-110	1	06/17/11 06:42	06/17/11 20:45	1718-51-0	
Phenol-d6 (S)	45	%	22-110	1	06/17/11 06:42	06/17/11 20:45	13127-88-3	
2-Fluorophenol (S)	40	%	13-110	1	06/17/11 06:42	06/17/11 20:45	367-12-4	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-12 (4') **Lab ID: 9296420006** Collected: 06/16/11 09:20 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4,6-Tribromophenol (S)	48	%	27-110	1	06/17/11 06:42	06/17/11 20:45	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	104	1		06/17/11 20:27	67-64-1	
Benzene	ND	ug/kg	5.2	1		06/17/11 20:27	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		06/17/11 20:27	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		06/17/11 20:27	75-27-4	
Bromoform	ND	ug/kg	5.2	1		06/17/11 20:27	75-25-2	
Bromomethane	ND	ug/kg	10.4	1		06/17/11 20:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	104	1		06/17/11 20:27	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		06/17/11 20:27	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	108-90-7	
Chloroethane	ND	ug/kg	10.4	1		06/17/11 20:27	75-00-3	
Chloroform	ND	ug/kg	5.2	1		06/17/11 20:27	67-66-3	
Chloromethane	ND	ug/kg	10.4	1		06/17/11 20:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		06/17/11 20:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		06/17/11 20:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		06/17/11 20:27	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		06/17/11 20:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		06/17/11 20:27	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		06/17/11 20:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1		06/17/11 20:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		06/17/11 20:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		06/17/11 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		06/17/11 20:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		06/17/11 20:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		06/17/11 20:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		06/17/11 20:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		06/17/11 20:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		06/17/11 20:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		06/17/11 20:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		06/17/11 20:27	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		06/17/11 20:27	87-68-3	
2-Hexanone	ND	ug/kg	52.2	1		06/17/11 20:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		06/17/11 20:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		06/17/11 20:27	99-87-6	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-12 (4') **Lab ID: 9296420006** Collected: 06/16/11 09:20 Received: 06/16/11 11:50 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							
Methylene Chloride	ND	ug/kg	20.9	1		06/17/11 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	52.2	1		06/17/11 20:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		06/17/11 20:27	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		06/17/11 20:27	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	103-65-1	
Styrene	ND	ug/kg	5.2	1		06/17/11 20:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		06/17/11 20:27	127-18-4	
Toluene	ND	ug/kg	5.2	1		06/17/11 20:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		06/17/11 20:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		06/17/11 20:27	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		06/17/11 20:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		06/17/11 20:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		06/17/11 20:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		06/17/11 20:27	108-67-8	
Vinyl acetate	ND	ug/kg	52.2	1		06/17/11 20:27	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1		06/17/11 20:27	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		06/17/11 20:27	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1		06/17/11 20:27	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		06/17/11 20:27	95-47-6	
Dibromofluoromethane (S)	92	%	70-130	1		06/17/11 20:27	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		06/17/11 20:27	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		06/17/11 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-132	1		06/17/11 20:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.2**	%	0.10	1		06/17/11 17:07		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	4.8	1	06/20/11 01:30	06/20/11 02:15	18540-29-9	N2

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-13 (3') **Lab ID: 9296420007** Collected: 06/16/11 09:40 Received: 06/16/11 11:50 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	**525**	mg/kg	11.8	2	06/16/11 15:00	06/20/11 12:38	68334-30-5	
n-Pentacosane (S)	171	%	41-119	2	06/16/11 15:00	06/20/11 12:38	629-99-2	S5
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**580**	mg/kg	27.7	5	06/17/11 16:45	06/18/11 02:08	8006-61-9	
4-Bromofluorobenzene (S)	138	%	70-167	5	06/17/11 16:45	06/18/11 02:08	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-36-0	
Arsenic	ND	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-38-2	
Beryllium	**0.70**	mg/kg	0.11	1	06/16/11 17:10	06/17/11 12:27	7440-41-7	
Cadmium	**2.8**	mg/kg	0.11	1	06/16/11 17:10	06/17/11 12:27	7440-43-9	
Chromium	**24.6**	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-47-3	
Copper	**41.0**	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-50-8	
Lead	**10.9**	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7439-92-1	
Manganese	**296**	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7439-96-5	
Nickel	**8.9**	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-02-0	
Selenium	**2.1**	mg/kg	1.1	1	06/16/11 17:10	06/17/11 12:27	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/16/11 17:10	06/17/11 12:27	7440-22-4	
Thallium	ND	mg/kg	1.1	1	06/16/11 17:10	06/17/11 12:27	7440-28-0	
Zinc	**60.5**	mg/kg	1.1	1	06/16/11 17:10	06/17/11 12:27	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0092**	mg/kg	0.0048	1	06/17/11 10:50	06/18/11 12:50	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	9560	100		06/17/11 21:47	67-64-1	
Benzene	ND	ug/kg	478	100		06/17/11 21:47	71-43-2	
Bromobenzene	ND	ug/kg	478	100		06/17/11 21:47	108-86-1	
Bromochloromethane	ND	ug/kg	478	100		06/17/11 21:47	74-97-5	
Bromodichloromethane	ND	ug/kg	478	100		06/17/11 21:47	75-27-4	
Bromoform	ND	ug/kg	478	100		06/17/11 21:47	75-25-2	
Bromomethane	ND	ug/kg	956	100		06/17/11 21:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9560	100		06/17/11 21:47	78-93-3	
n-Butylbenzene	ND	ug/kg	478	100		06/17/11 21:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	478	100		06/17/11 21:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	478	100		06/17/11 21:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	478	100		06/17/11 21:47	56-23-5	
Chlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	108-90-7	
Chloroethane	ND	ug/kg	956	100		06/17/11 21:47	75-00-3	
Chloroform	ND	ug/kg	478	100		06/17/11 21:47	67-66-3	
Chloromethane	ND	ug/kg	956	100		06/17/11 21:47	74-87-3	
2-Chlorotoluene	**761000**	ug/kg	23900	5000		06/20/11 11:33	95-49-8	
4-Chlorotoluene	**17200**	ug/kg	478	100		06/17/11 21:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	478	100		06/17/11 21:47	96-12-8	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-13 (3') **Lab ID: 9296420007** Collected: 06/16/11 09:40 Received: 06/16/11 11:50 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							
Dibromochloromethane	ND	ug/kg	478	100		06/17/11 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	478	100		06/17/11 21:47	106-93-4	
Dibromomethane	ND	ug/kg	478	100		06/17/11 21:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	956	100		06/17/11 21:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	478	100		06/17/11 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	478	100		06/17/11 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	478	100		06/17/11 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	478	100		06/17/11 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	478	100		06/17/11 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	478	100		06/17/11 21:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	478	100		06/17/11 21:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	478	100		06/17/11 21:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	478	100		06/17/11 21:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	478	100		06/17/11 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	478	100		06/17/11 21:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	478	100		06/17/11 21:47	108-20-3	
Ethylbenzene	ND	ug/kg	478	100		06/17/11 21:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	478	100		06/17/11 21:47	87-68-3	
2-Hexanone	ND	ug/kg	4780	100		06/17/11 21:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	478	100		06/17/11 21:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	478	100		06/17/11 21:47	99-87-6	
Methylene Chloride	ND	ug/kg	1910	100		06/17/11 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	4780	100		06/17/11 21:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	478	100		06/17/11 21:47	1634-04-4	
Naphthalene	**4870**	ug/kg	478	100		06/17/11 21:47	91-20-3	
n-Propylbenzene	ND	ug/kg	478	100		06/17/11 21:47	103-65-1	
Styrene	ND	ug/kg	478	100		06/17/11 21:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	478	100		06/17/11 21:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	478	100		06/17/11 21:47	79-34-5	
Tetrachloroethene	ND	ug/kg	478	100		06/17/11 21:47	127-18-4	
Toluene	ND	ug/kg	478	100		06/17/11 21:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	478	100		06/17/11 21:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	478	100		06/17/11 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	478	100		06/17/11 21:47	79-00-5	
Trichloroethene	ND	ug/kg	478	100		06/17/11 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	478	100		06/17/11 21:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	478	100		06/17/11 21:47	96-18-4	
1,2,4-Trimethylbenzene	**2640**	ug/kg	478	100		06/17/11 21:47	95-63-6	
1,3,5-Trimethylbenzene	**558**	ug/kg	478	100		06/17/11 21:47	108-67-8	
Vinyl acetate	ND	ug/kg	4780	100		06/17/11 21:47	108-05-4	
Vinyl chloride	ND	ug/kg	956	100		06/17/11 21:47	75-01-4	
Xylene (Total)	**10900**	ug/kg	956	100		06/17/11 21:47	1330-20-7	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-13 (3') **Lab ID: 9296420007** Collected: 06/16/11 09:40 Received: 06/16/11 11:50 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							
m&p-Xylene	**4410**	ug/kg	956	100		06/17/11 21:47	179601-23-1	
o-Xylene	**6450**	ug/kg	478	100		06/17/11 21:47	95-47-6	
Dibromofluoromethane (S)	93	%	70-130	100		06/17/11 21:47	1868-53-7	
Toluene-d8 (S)	106	%	70-130	100		06/17/11 21:47	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	100		06/17/11 21:47	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132	100		06/17/11 21:47	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.3**	%	0.10	1		06/17/11 17:07		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.5	1	06/20/11 01:30	06/20/11 02:15	18540-29-9	N2

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-14 (2') **Lab ID: 9296420008** Collected: 06/16/11 10:30 Received: 06/16/11 11:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	ND	mg/kg	86.5	1	06/17/11 11:10	06/17/11 13:24		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-36-0	
Arsenic	ND	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-38-2	
Beryllium	**0.74**	mg/kg	0.098	1	06/16/11 17:10	06/17/11 12:32	7440-41-7	
Cadmium	**2.3**	mg/kg	0.098	1	06/16/11 17:10	06/17/11 12:32	7440-43-9	
Chromium	**15.3**	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-47-3	
Copper	**21.1**	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-50-8	
Lead	**13.6**	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7439-92-1	
Manganese	**374**	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7439-96-5	
Nickel	**4.0**	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-02-0	
Selenium	**2.1**	mg/kg	0.98	1	06/16/11 17:10	06/17/11 12:32	7782-49-2	
Silver	ND	mg/kg	0.49	1	06/16/11 17:10	06/17/11 12:32	7440-22-4	
Thallium	ND	mg/kg	0.98	1	06/16/11 17:10	06/17/11 12:32	7440-28-0	
Zinc	**28.2**	mg/kg	0.98	1	06/16/11 17:10	06/17/11 12:32	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.011**	mg/kg	0.0052	1	06/17/11 10:50	06/18/11 12:55	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	115	1		06/17/11 20:47	67-64-1	
Benzene	ND	ug/kg	5.7	1		06/17/11 20:47	71-43-2	
Bromobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		06/17/11 20:47	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		06/17/11 20:47	75-27-4	
Bromoform	ND	ug/kg	5.7	1		06/17/11 20:47	75-25-2	
Bromomethane	ND	ug/kg	11.5	1		06/17/11 20:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	115	1		06/17/11 20:47	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1		06/17/11 20:47	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	108-90-7	
Chloroethane	ND	ug/kg	11.5	1		06/17/11 20:47	75-00-3	
Chloroform	ND	ug/kg	5.7	1		06/17/11 20:47	67-66-3	
Chloromethane	ND	ug/kg	11.5	1		06/17/11 20:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		06/17/11 20:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		06/17/11 20:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1		06/17/11 20:47	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1		06/17/11 20:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		06/17/11 20:47	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		06/17/11 20:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	541-73-1	

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-14 (2') **Lab ID: 9296420008** Collected: 06/16/11 10:30 Received: 06/16/11 11:50 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							
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.5	1		06/17/11 20:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		06/17/11 20:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		06/17/11 20:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		06/17/11 20:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		06/17/11 20:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		06/17/11 20:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		06/17/11 20:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		06/17/11 20:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		06/17/11 20:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		06/17/11 20:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.7	1		06/17/11 20:47	108-20-3	
Ethylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		06/17/11 20:47	87-68-3	
2-Hexanone	ND	ug/kg	57.3	1		06/17/11 20:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		06/17/11 20:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		06/17/11 20:47	99-87-6	
Methylene Chloride	ND	ug/kg	22.9	1		06/17/11 20:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.3	1		06/17/11 20:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		06/17/11 20:47	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		06/17/11 20:47	91-20-3	
n-Propylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	103-65-1	
Styrene	ND	ug/kg	5.7	1		06/17/11 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		06/17/11 20:47	127-18-4	
Toluene	ND	ug/kg	5.7	1		06/17/11 20:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		06/17/11 20:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		06/17/11 20:47	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		06/17/11 20:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		06/17/11 20:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		06/17/11 20:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		06/17/11 20:47	108-67-8	
Vinyl acetate	ND	ug/kg	57.3	1		06/17/11 20:47	108-05-4	
Vinyl chloride	ND	ug/kg	11.5	1		06/17/11 20:47	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		06/17/11 20:47	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	1		06/17/11 20:47	179601-23-1	
o-Xylene	ND	ug/kg	5.7	1		06/17/11 20:47	95-47-6	
Dibromofluoromethane (S)	90	%	70-130	1		06/17/11 20:47	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		06/17/11 20:47	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		06/17/11 20:47	460-00-4	

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296420

Sample: HH-14 (2') **Lab ID: 9296420008** Collected: 06/16/11 10:30 Received: 06/16/11 11:50 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							
1,2-Dichloroethane-d4 (S)	87	%	70-132	1		06/17/11 20:47	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.1**	%	0.10	1		06/17/11 17:08		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.3	1	06/20/11 01:30	06/20/11 02:21	18540-29-9	N2

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: OEXT/13960 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420007

METHOD BLANK: 621886 Matrix: Solid
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	06/17/11 09:50	
n-Pentacosane (S)	%	66	41-119	06/17/11 09:50	

LABORATORY CONTROL SAMPLE: 621887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	47.7	72	49-113	
n-Pentacosane (S)	%			77	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621888 621889

Parameter	Units	9296050013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Components	mg/kg	165	74.1	74.1	230	231	89	90	10-146	0	30	
n-Pentacosane (S)	%						81	82	41-119			

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: GCSV/9991 — Analysis Method: 9071B
QC Batch Method: 9071B — Analysis Description: 9071 Oil and Grease
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420008

METHOD BLANK: 622279 — Matrix: Solid
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/kg	ND	70.0	06/17/11 13:24	

LABORATORY CONTROL SAMPLE: 622280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	1330	1180	89	78-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 622281 622282

Parameter	Units	9296420008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil and Grease	mg/kg	ND	1640	1640	1430	1430	86	86	78-114	1	20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: GCV/5132 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B — Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420007

METHOD BLANK: 622647 — Matrix: Solid
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	06/17/11 16:36	
4-Bromofluorobenzene (S)	%	111	70-167	06/17/11 16:36	

LABORATORY CONTROL SAMPLE: 622648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	28.2	113	70-165	
4-Bromofluorobenzene (S)	%			90	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 622649 622650

Parameter	Units	9296121002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	24.2	24.2	34.3	30.1	137	120	47-187	13	30	
4-Bromofluorobenzene (S)	%						103	95	70-167			

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: MPRP/8561 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

METHOD BLANK: 621972 Matrix: Solid
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.50	06/16/11 23:07	
Arsenic	mg/kg	ND	0.50	06/16/11 23:07	
Beryllium	mg/kg	ND	0.10	06/16/11 23:07	
Cadmium	mg/kg	ND	0.10	06/16/11 23:07	
Chromium	mg/kg	ND	0.50	06/16/11 23:07	
Copper	mg/kg	ND	0.50	06/16/11 23:07	
Lead	mg/kg	ND	0.50	06/16/11 23:07	
Manganese	mg/kg	ND	0.50	06/16/11 23:07	
Nickel	mg/kg	ND	0.50	06/16/11 23:07	
Selenium	mg/kg	ND	1.0	06/16/11 23:07	
Silver	mg/kg	ND	0.50	06/16/11 23:07	
Thallium	mg/kg	ND	1.0	06/16/11 23:07	
Zinc	mg/kg	ND	1.0	06/16/11 23:07	

LABORATORY CONTROL SAMPLE: 621973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	46.9	94	80-120	
Arsenic	mg/kg	50	46.6	93	80-120	
Beryllium	mg/kg	50	46.9	94	80-120	
Cadmium	mg/kg	50	45.8	92	80-120	
Chromium	mg/kg	50	46.7	93	80-120	
Copper	mg/kg	50	48.5	97	80-120	
Lead	mg/kg	50	47.0	94	80-120	
Manganese	mg/kg	50	45.7	91	80-120	
Nickel	mg/kg	50	46.3	93	80-120	
Selenium	mg/kg	50	46.7	93	80-120	
Silver	mg/kg	25	23.7	95	80-120	
Thallium	mg/kg	50	46.5	93	80-120	
Zinc	mg/kg	50	46.4	93	80-120	

MATRIX SPIKE SAMPLE: 621974

Parameter	Units	9295995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	ND	55.4	49.9	90	75-125	
Arsenic	mg/kg	0.80	55.4	50.4	90	75-125	
Beryllium	mg/kg	ND	55.4	52.2	94	75-125	
Cadmium	mg/kg	ND	55.4	49.5	89	75-125	
Chromium	mg/kg	4.2	55.4	58.1	97	75-125	
Copper	mg/kg	2.3	55.4	59.3	103	75-125	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

MATRIX SPIKE SAMPLE: 621974

Parameter	Units	9295995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	5.1	55.4	55.3	91	75-125	
Manganese	mg/kg	2.6	55.4	53.0	91	75-125	
Nickel	mg/kg	ND	55.4	50.8	91	75-125	
Selenium	mg/kg	ND	55.4	51.4	92	75-125	
Silver	mg/kg	ND	27.7	27.2	98	75-125	
Thallium	mg/kg	ND	55.4	49.6	89	75-125	
Zinc	mg/kg	6.5	55.4	61.2	99	75-125	

SAMPLE DUPLICATE: 621975

Parameter	Units	9295995002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	mg/kg	ND	ND		20	
Arsenic	mg/kg	1.8	1.6	10	20	
Beryllium	mg/kg	0.31	0.28	8	20	
Cadmium	mg/kg	ND	ND		20	
Chromium	mg/kg	5.3	5.6	6	20	
Copper	mg/kg	8.7	8.6	2	20	
Lead	mg/kg	83.2	45.4	59	20	R1
Manganese	mg/kg	10.7	9.1	16	20	
Nickel	mg/kg	1.2	1.2	1	20	
Selenium	mg/kg	ND	.52J		20	
Silver	mg/kg	ND	ND		20	
Thallium	mg/kg	ND	ND		20	
Zinc	mg/kg	38.7	38.4	1	20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: MERP/3554 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

METHOD BLANK: 622291 Matrix: Solid
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	06/18/11 12:05	

LABORATORY CONTROL SAMPLE: 622292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.062	93	80-120	

MATRIX SPIKE SAMPLE: 622293

Parameter	Units	9295638032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.048	0.028	56	75-125	M0

MATRIX SPIKE SAMPLE: 622295

Parameter	Units	9296420007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.0092	.048	0.051	88	75-125	

SAMPLE DUPLICATE: 622294

Parameter	Units	9295638033 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.012	0.014	16	20	

SAMPLE DUPLICATE: 622296

Parameter	Units	9296420008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.011	0.0083	26	20	R1

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: OEXT/13967 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9296420004, 9296420005, 9296420006

METHOD BLANK: 622212 Matrix: Solid
Associated Lab Samples: 9296420004, 9296420005, 9296420006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	06/17/11 18:52	
1,2-Dichlorobenzene	ug/kg	ND	330	06/17/11 18:52	
1,3-Dichlorobenzene	ug/kg	ND	330	06/17/11 18:52	
1,4-Dichlorobenzene	ug/kg	ND	330	06/17/11 18:52	
1-Methylnaphthalene	ug/kg	ND	330	06/17/11 18:52	
2,4,5-Trichlorophenol	ug/kg	ND	330	06/17/11 18:52	
2,4,6-Trichlorophenol	ug/kg	ND	330	06/17/11 18:52	
2,4-Dichlorophenol	ug/kg	ND	330	06/17/11 18:52	
2,4-Dimethylphenol	ug/kg	ND	330	06/17/11 18:52	
2,4-Dinitrophenol	ug/kg	ND	1650	06/17/11 18:52	
2,4-Dinitrotoluene	ug/kg	ND	330	06/17/11 18:52	
2,6-Dinitrotoluene	ug/kg	ND	330	06/17/11 18:52	
2-Chloronaphthalene	ug/kg	ND	330	06/17/11 18:52	
2-Chlorophenol	ug/kg	ND	330	06/17/11 18:52	
2-Methylnaphthalene	ug/kg	ND	330	06/17/11 18:52	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	06/17/11 18:52	
2-Nitroaniline	ug/kg	ND	1650	06/17/11 18:52	
2-Nitrophenol	ug/kg	ND	330	06/17/11 18:52	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	06/17/11 18:52	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	06/17/11 18:52	
3-Nitroaniline	ug/kg	ND	1650	06/17/11 18:52	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	06/17/11 18:52	
4-Bromophenylphenyl ether	ug/kg	ND	330	06/17/11 18:52	
4-Chloro-3-methylphenol	ug/kg	ND	660	06/17/11 18:52	
4-Chloroaniline	ug/kg	ND	1650	06/17/11 18:52	
4-Chlorophenylphenyl ether	ug/kg	ND	330	06/17/11 18:52	
4-Nitroaniline	ug/kg	ND	660	06/17/11 18:52	
4-Nitrophenol	ug/kg	ND	1650	06/17/11 18:52	
Acenaphthene	ug/kg	ND	330	06/17/11 18:52	
Acenaphthylene	ug/kg	ND	330	06/17/11 18:52	
Aniline	ug/kg	ND	330	06/17/11 18:52	
Anthracene	ug/kg	ND	330	06/17/11 18:52	
Benzo(a)anthracene	ug/kg	ND	330	06/17/11 18:52	
Benzo(a)pyrene	ug/kg	ND	330	06/17/11 18:52	
Benzo(b)fluoranthene	ug/kg	ND	330	06/17/11 18:52	
Benzo(g,h,i)perylene	ug/kg	ND	330	06/17/11 18:52	
Benzo(k)fluoranthene	ug/kg	ND	330	06/17/11 18:52	
Benzoic Acid	ug/kg	ND	1650	06/17/11 18:52	
Benzyl alcohol	ug/kg	ND	660	06/17/11 18:52	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	06/17/11 18:52	
bis(2-Chloroethyl) ether	ug/kg	ND	330	06/17/11 18:52	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	06/17/11 18:52	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	06/17/11 18:52	

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Asheville, NC 28804
(828)254-7176

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

METHOD BLANK: 622212 Matrix: Solid

Associated Lab Samples: 9296420004, 9296420005, 9296420006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	06/17/11 18:52	
Chrysene	ug/kg	ND	330	06/17/11 18:52	
Di-n-butylphthalate	ug/kg	ND	330	06/17/11 18:52	
Di-n-octylphthalate	ug/kg	ND	330	06/17/11 18:52	
Dibenz(a,h)anthracene	ug/kg	ND	330	06/17/11 18:52	
Dibenzofuran	ug/kg	ND	330	06/17/11 18:52	
Diethylphthalate	ug/kg	ND	330	06/17/11 18:52	
Dimethylphthalate	ug/kg	ND	330	06/17/11 18:52	
Fluoranthene	ug/kg	ND	330	06/17/11 18:52	
Fluorene	ug/kg	ND	330	06/17/11 18:52	
Hexachloro-1,3-butadiene	ug/kg	ND	330	06/17/11 18:52	
Hexachlorobenzene	ug/kg	ND	330	06/17/11 18:52	
Hexachlorocyclopentadiene	ug/kg	ND	330	06/17/11 18:52	
Hexachloroethane	ug/kg	ND	330	06/17/11 18:52	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	06/17/11 18:52	
Isophorone	ug/kg	ND	330	06/17/11 18:52	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	06/17/11 18:52	
N-Nitrosodimethylamine	ug/kg	ND	330	06/17/11 18:52	
N-Nitrosodiphenylamine	ug/kg	ND	330	06/17/11 18:52	
Naphthalene	ug/kg	ND	330	06/17/11 18:52	
Nitrobenzene	ug/kg	ND	330	06/17/11 18:52	
Pentachlorophenol	ug/kg	ND	1650	06/17/11 18:52	
Phenanthrene	ug/kg	ND	330	06/17/11 18:52	
Phenol	ug/kg	ND	330	06/17/11 18:52	
Pyrene	ug/kg	ND	330	06/17/11 18:52	
2,4,6-Tribromophenol (S)	%	57	27-110	06/17/11 18:52	
2-Fluorobiphenyl (S)	%	61	30-110	06/17/11 18:52	
2-Fluorophenol (S)	%	54	13-110	06/17/11 18:52	
Nitrobenzene-d5 (S)	%	65	23-110	06/17/11 18:52	
Phenol-d6 (S)	%	53	22-110	06/17/11 18:52	
Terphenyl-d14 (S)	%	84	28-110	06/17/11 18:52	

LABORATORY CONTROL SAMPLE: 622213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1380	83	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1240	74	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1220	73	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1230	74	35-110	
1-Methylnaphthalene	ug/kg	1670	1330	80	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1220	73	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1340	80	45-111	
2,4-Dichlorophenol	ug/kg	1670	1380	83	51-116	
2,4-Dimethylphenol	ug/kg	1670	1300	78	42-103	
2,4-Dinitrophenol	ug/kg	8330	4580	55	28-103	

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

LABORATORY CONTROL SAMPLE: 622213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1270	76	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1310	79	48-112	
2-Chloronaphthalene	ug/kg	1670	1340	81	44-105	
2-Chlorophenol	ug/kg	1670	1180	71	36-110	
2-Methylnaphthalene	ug/kg	1670	1280	77	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1180	71	39-101	
2-Nitroaniline	ug/kg	3330	2770	83	44-111	
2-Nitrophenol	ug/kg	1670	1220	73	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1210	72	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2100	63	10-150	
3-Nitroaniline	ug/kg	3330	2160	65	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2200	66	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1250	75	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2780	83	43-127	
4-Chloroaniline	ug/kg	3330	2310	69	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1270	76	44-115	
4-Nitroaniline	ug/kg	3330	2160	65	37-111	
4-Nitrophenol	ug/kg	8330	6540	78	21-152	
Acenaphthene	ug/kg	1670	1390	84	38-117	
Acenaphthylene	ug/kg	1670	1280	77	46-107	
Aniline	ug/kg	1670	1140	68	29-110	
Anthracene	ug/kg	1670	1380	83	50-110	
Benzo(a)anthracene	ug/kg	1670	1260	76	47-116	
Benzo(a)pyrene	ug/kg	1670	1200	72	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1300	78	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1300	78	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1280	77	45-117	
Benzoic Acid	ug/kg	8330	2810	34	16-110	
Benzyl alcohol	ug/kg	3330	2610	78	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1210	73	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1190	72	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1070	64	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1280	77	35-116	
Butylbenzylphthalate	ug/kg	1670	1300	78	38-110	
Chrysene	ug/kg	1670	1240	74	49-110	
Di-n-butylphthalate	ug/kg	1670	1280	77	43-109	
Di-n-octylphthalate	ug/kg	1670	1130	68	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1290	77	43-116	
Dibenzofuran	ug/kg	1670	1360	82	45-106	
Diethylphthalate	ug/kg	1670	1290	77	41-114	
Dimethylphthalate	ug/kg	1670	1280	77	43-110	
Fluoranthene	ug/kg	1670	1270	76	50-114	
Fluorene	ug/kg	1670	1370	82	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1380	83	28-111	
Hexachlorobenzene	ug/kg	1670	1350	81	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	986	59	18-119	
Hexachloroethane	ug/kg	1670	1210	73	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1280	77	42-115	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

LABORATORY CONTROL SAMPLE: 622213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1410	84	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1350	81	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1150	69	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1430	86	48-113	
Naphthalene	ug/kg	1670	1260	75	41-110	
Nitrobenzene	ug/kg	1670	1370	82	38-110	
Pentachlorophenol	ug/kg	3330	1790	54	32-128	
Phenanthrene	ug/kg	1670	1350	81	50-110	
Phenol	ug/kg	1670	1360	81	28-106	
Pyrene	ug/kg	1670	1450	87	45-114	
2,4,6-Tribromophenol (S)	%			79	27-110	
2-Fluorobiphenyl (S)	%			82	30-110	
2-Fluorophenol (S)	%			69	13-110	
Nitrobenzene-d5 (S)	%			83	23-110	
Phenol-d6 (S)	%			70	22-110	
Terphenyl-d14 (S)	%			83	28-110	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: MSV/15704 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

METHOD BLANK: 622417 Matrix: Solid
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
1,1-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichloroethane	ug/kg	ND	5.0	06/17/11 14:26	
1,2-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
1,3-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
2,2-Dichloropropane	ug/kg	ND	5.0	06/17/11 14:26	
2-Butanone (MEK)	ug/kg	ND	100	06/17/11 14:26	
2-Chlorotoluene	ug/kg	ND	5.0	06/17/11 14:26	
2-Hexanone	ug/kg	ND	50.0	06/17/11 14:26	
4-Chlorotoluene	ug/kg	ND	5.0	06/17/11 14:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	06/17/11 14:26	
Acetone	ug/kg	ND	100	06/17/11 14:26	
Benzene	ug/kg	ND	5.0	06/17/11 14:26	
Bromobenzene	ug/kg	ND	5.0	06/17/11 14:26	
Bromochloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Bromodichloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Bromoform	ug/kg	ND	5.0	06/17/11 14:26	
Bromomethane	ug/kg	ND	10.0	06/17/11 14:26	
Carbon tetrachloride	ug/kg	ND	5.0	06/17/11 14:26	
Chlorobenzene	ug/kg	ND	5.0	06/17/11 14:26	
Chloroethane	ug/kg	ND	10.0	06/17/11 14:26	
Chloroform	ug/kg	ND	5.0	06/17/11 14:26	
Chloromethane	ug/kg	ND	10.0	06/17/11 14:26	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
Dibromochloromethane	ug/kg	ND	5.0	06/17/11 14:26	
Dibromomethane	ug/kg	ND	5.0	06/17/11 14:26	
Dichlorodifluoromethane	ug/kg	ND	10.0	06/17/11 14:26	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

METHOD BLANK: 622417 Matrix: Solid

Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	06/17/11 14:26	
Ethylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/17/11 14:26	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/17/11 14:26	
m&p-Xylene	ug/kg	ND	10.0	06/17/11 14:26	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/17/11 14:26	
Methylene Chloride	ug/kg	ND	20.0	06/17/11 14:26	
n-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
n-Propylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Naphthalene	ug/kg	ND	5.0	06/17/11 14:26	
o-Xylene	ug/kg	ND	5.0	06/17/11 14:26	
p-Isopropyltoluene	ug/kg	ND	5.0	06/17/11 14:26	
sec-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Styrene	ug/kg	ND	5.0	06/17/11 14:26	
tert-Butylbenzene	ug/kg	ND	5.0	06/17/11 14:26	
Tetrachloroethene	ug/kg	ND	5.0	06/17/11 14:26	
Toluene	ug/kg	ND	5.0	06/17/11 14:26	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/11 14:26	
Trichloroethene	ug/kg	ND	5.0	06/17/11 14:26	
Trichlorofluoromethane	ug/kg	ND	5.0	06/17/11 14:26	
Vinyl acetate	ug/kg	ND	50.0	06/17/11 14:26	
Vinyl chloride	ug/kg	ND	10.0	06/17/11 14:26	
Xylene (Total)	ug/kg	ND	10.0	06/17/11 14:26	
1,2-Dichloroethane-d4 (S)	%	96	70-132	06/17/11 14:26	
4-Bromofluorobenzene (S)	%	96	70-130	06/17/11 14:26	
Dibromofluoromethane (S)	%	94	70-130	06/17/11 14:26	
Toluene-d8 (S)	%	101	70-130	06/17/11 14:26	

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.9	108	70-131	
1,1,1-Trichloroethane	ug/kg	50	49.7	99	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.4	105	70-130	
1,1,2-Trichloroethane	ug/kg	50	50.0	100	70-132	
1,1-Dichloroethane	ug/kg	50	49.3	99	70-143	
1,1-Dichloroethene	ug/kg	50	47.7	95	70-137	
1,1-Dichloropropene	ug/kg	50	45.1	90	70-135	
1,2,3-Trichlorobenzene	ug/kg	50	50.5	101	69-153	
1,2,3-Trichloropropane	ug/kg	50	48.4	97	70-130	
1,2,4-Trichlorobenzene	ug/kg	50	50.2	100	55-171	
1,2,4-Trimethylbenzene	ug/kg	50	49.4	99	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50	43.7	87	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	52.2	104	70-130	

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	50.1	100	70-140	
1,2-Dichloroethane	ug/kg	50	48.1	96	70-137	
1,2-Dichloropropane	ug/kg	50	50.5	101	70-133	
1,3,5-Trimethylbenzene	ug/kg	50	48.6	97	70-143	
1,3-Dichlorobenzene	ug/kg	50	50.0	100	70-144	
1,3-Dichloropropane	ug/kg	50	50.9	102	70-132	
1,4-Dichlorobenzene	ug/kg	50	47.8	96	70-142	
2,2-Dichloropropane	ug/kg	50	49.5	99	68-152	
2-Butanone (MEK)	ug/kg	100	101	101	70-149	
2-Chlorotoluene	ug/kg	50	49.2	98	70-141	
2-Hexanone	ug/kg	100	105	105	70-149	
4-Chlorotoluene	ug/kg	50	51.0	102	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.8	100	70-153	
Acetone	ug/kg	100	86.7J	87	70-157	
Benzene	ug/kg	50	46.8	94	70-130	
Bromobenzene	ug/kg	50	50.3	101	70-141	
Bromochloromethane	ug/kg	50	48.2	96	70-149	
Bromodichloromethane	ug/kg	50	49.3	99	70-130	
Bromoform	ug/kg	50	48.2	96	70-131	
Bromomethane	ug/kg	50	47.6	95	64-136	
Carbon tetrachloride	ug/kg	50	50.7	101	70-154	
Chlorobenzene	ug/kg	50	51.1	102	70-135	
Chloroethane	ug/kg	50	49.4	99	68-151	
Chloroform	ug/kg	50	52.0	104	70-130	
Chloromethane	ug/kg	50	44.4	89	70-132	
cis-1,2-Dichloroethene	ug/kg	50	48.4	97	70-140	
cis-1,3-Dichloropropene	ug/kg	50	51.5	103	70-137	
Dibromochloromethane	ug/kg	50	49.3	99	70-130	
Dibromomethane	ug/kg	50	50.9	102	70-136	
Dichlorodifluoromethane	ug/kg	50	55.6	111	36-148	
Diisopropyl ether	ug/kg	50	49.5	99	70-139	
Ethylbenzene	ug/kg	50	47.8	96	70-137	
Hexachloro-1,3-butadiene	ug/kg	50	48.6	97	70-145	
Isopropylbenzene (Cumene)	ug/kg	50	49.7	99	70-141	
m&p-Xylene	ug/kg	100	98.0	98	70-140	
Methyl-tert-butyl ether	ug/kg	50	50.6	101	45-150	
Methylene Chloride	ug/kg	50	42.9	86	70-133	
n-Butylbenzene	ug/kg	50	49.2	98	65-155	
n-Propylbenzene	ug/kg	50	47.9	96	70-148	
Naphthalene	ug/kg	50	51.6	103	70-148	
o-Xylene	ug/kg	50	49.9	100	70-141	
p-Isopropyltoluene	ug/kg	50	48.8	98	70-148	
sec-Butylbenzene	ug/kg	50	49.3	99	70-145	
Styrene	ug/kg	50	52.8	106	70-138	
tert-Butylbenzene	ug/kg	50	49.5	99	70-143	
Tetrachloroethene	ug/kg	50	49.9	100	70-140	
Toluene	ug/kg	50	45.8	92	70-130	
trans-1,2-Dichloroethene	ug/kg	50	48.0	96	70-136	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

LABORATORY CONTROL SAMPLE: 622418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	47.3	95	70-138	
Trichloroethene	ug/kg	50	49.6	99	70-132	
Trichlorofluoromethane	ug/kg	50	45.6	91	69-134	
Vinyl acetate	ug/kg	100	75.4	75	24-161	
Vinyl chloride	ug/kg	50	48.7	97	55-140	
Xylene (Total)	ug/kg	150	148	99	70-141	
1,2-Dichloroethane-d4 (S)	%			88	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 623097

Parameter	Units	9296410010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	46.8	45.2	97	49-180	
Benzene	ug/kg	ND	46.8	45.9	98	50-166	
Chlorobenzene	ug/kg	ND	46.8	40.9	87	43-169	
Toluene	ug/kg	ND	46.8	42.4	91	52-163	
Trichloroethene	ug/kg	ND	46.8	45.4	97	49-167	
1,2-Dichloroethane-d4 (S)	%				92	70-132	
4-Bromofluorobenzene (S)	%				88	70-130	
Dibromofluoromethane (S)	%				98	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	

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Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

SAMPLE DUPLICATE: 623096

Parameter	Units	9296412012 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	92	98	21		
4-Bromofluorobenzene (S)	%	96	96	28		
Dibromofluoromethane (S)	%	94	99	23		
Toluene-d8 (S)	%	100	105	23		

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: PMST/4000 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9296420001, 9296420002, 9296420003, 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

SAMPLE DUPLICATE: 622339

Parameter	Units	9296420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	15.5	27	25	R1

SAMPLE DUPLICATE: 622414

Parameter	Units	9296393002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.4	17.5	5	25	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296420

QC Batch: WETA/9931 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

METHOD BLANK: 623030 Matrix: Solid
Associated Lab Samples: 9296420004, 9296420005, 9296420006, 9296420007, 9296420008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.0	06/20/11 02:15	N2

LABORATORY CONTROL SAMPLE: 623031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	50	50.7	101	90-110	N2

MATRIX SPIKE SAMPLE: 623032

Parameter	Units	9296420004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	56.6	35.6	62	75-125	M1,N2

MATRIX SPIKE SAMPLE: 623036

Parameter	Units	9296420005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	52.7	18.9	36	75-125	M1,N2

SAMPLE DUPLICATE: 623037

Parameter	Units	9296420006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	N2

SAMPLE DUPLICATE: 623038

Parameter	Units	9296420007 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	N2

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QUALIFIERS

Project: PPA-040
Pace Project No.: 9296420

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC accreditation for this parameter.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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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.

Page: of

1474587

Section A Required Client Information:

Company: Hart + Hickman
Address: 2923 S Tryon St
Charlotte NC 28203
Email To: Shet@harthickman.com
Phone: 704 686 0031 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Stephen Hart Shet@harthickman
Copy To: jlopez@harthickman
Purchase Order No.:
Project Name:
Project Number: PPA-040

Section C Invoice Information:

Attention: Cynthia Wells
Company Name:
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

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~~ Grab DATE	TIME	~~COMPOSITE END/GRAB~~ DATE	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): VOCs	SVOCs	TPH GRO/DRO	OTG	HSL Metals w/ ^{6}Cr *	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9296420
1	HH-3 (4')			6/5/11	1810															X	X			9296420001
2	HH-4 (2')			6/5/11	1825															X	X			002
3	HH-10 (4')			6/5/11	1820															X	X			003
4	HH-7 (2')			6/6/11	0910													X	X			X		004
5	HH-8 (2')			6/6/11	0915													X	X			X		005
6	HH-12 (4')			6/6/11	0920													X	X			X		006
7	HH-13 (3')			6/6/11	0940													X		X		X		007
8	HH-14 (2')			6/6/11	1030													X			X	X		008
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* HSL metals should include: Antimony, Arsenic, beryllium, cadmium, total Cr, Cr^{+6}, Cu, Pb, Manganese, Hg, Selenium, Silver, Thallium, + Zn	[signature] H+H	6/6/11	11:11	[signature]	6-16-11	1111				
	[signature]	6-16-11	1150	[signature]	6/16/11	11:50	5.3	Y	—	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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hart + Hickman Project # 9296420

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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#2 -80344039~~ **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 5.3 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 6/16/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 6/16/11 **SRF Review:** GW **Date:** 6/17/11

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)

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Eden, NC 27288
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9800 Kincey Ave. Suite 100
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(704)875-9092

June 21, 2011

Mr. Steve Hart
Hart & Hickman
2923 South Tryon Street
Charlotte, NC 28203

RE: Project: PPA-040
Pace Project No.: 9296482

Dear Mr. Hart:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PPA-040
Pace Project No.: 9296482

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: PPA-040
Pace Project No.: 9296482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9296482001	**TW HH-13**	Water	06/16/11 18:30	06/16/11 19:19

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SAMPLE ANALYTE COUNT

Project: PPA-040
Pace Project No.: 9296482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9296482001	**TW HH-13**	EPA 8270	PPM	74	PASI-C

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ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296482

Sample: TW HH-13 **Lab ID: 9296482001** Collected: 06/16/11 18:30 Received: 06/16/11 19:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	208-96-8	
Aniline	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	62-53-3	
Anthracene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	06/20/11 18:00	06/21/11 08:55	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	7005-72-3	
Chrysene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	06/20/11 18:00	06/21/11 08:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	06/20/11 18:00	06/21/11 08:55	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	206-44-0	
Fluorene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	193-39-5	
Isophorone	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	78-59-1	

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ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296482

Sample: TW HH-13 **Lab ID: 9296482001** Collected: 06/16/11 18:30 Received: 06/16/11 19:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1-Methylnaphthalene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55		
Naphthalene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	06/20/11 18:00	06/21/11 08:55	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	06/20/11 18:00	06/21/11 08:55	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	06/20/11 18:00	06/21/11 08:55	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	06/20/11 18:00	06/21/11 08:55	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1	06/20/11 18:00	06/21/11 08:55	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	85-01-8	
Phenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	108-95-2	
Pyrene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	06/20/11 18:00	06/21/11 08:55	88-06-2	
Nitrobenzene-d5 (S)	51	%	21-110	1	06/20/11 18:00	06/21/11 08:55	4165-60-0	
2-Fluorobiphenyl (S)	66	%	27-110	1	06/20/11 18:00	06/21/11 08:55	321-60-8	
Terphenyl-d14 (S)	76	%	31-107	1	06/20/11 18:00	06/21/11 08:55	1718-51-0	
Phenol-d6 (S)	30	%	10-110	1	06/20/11 18:00	06/21/11 08:55	13127-88-3	
2-Fluorophenol (S)	36	%	12-110	1	06/20/11 18:00	06/21/11 08:55	367-12-4	
2,4,6-Tribromophenol (S)	87	%	27-110	1	06/20/11 18:00	06/21/11 08:55	118-79-6	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296482

QC Batch: OEXT/13988
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 9296482001

METHOD BLANK: 623395
Matrix: Water
Associated Lab Samples: 9296482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/21/11 07:32	
1,2-Dichlorobenzene	ug/L	ND	10.0	06/21/11 07:32	
1,3-Dichlorobenzene	ug/L	ND	10.0	06/21/11 07:32	
1,4-Dichlorobenzene	ug/L	ND	10.0	06/21/11 07:32	
1-Methylnaphthalene	ug/L	ND	10.0	06/21/11 07:32	
2,4,5-Trichlorophenol	ug/L	ND	10.0	06/21/11 07:32	
2,4,6-Trichlorophenol	ug/L	ND	10.0	06/21/11 07:32	
2,4-Dichlorophenol	ug/L	ND	10.0	06/21/11 07:32	
2,4-Dimethylphenol	ug/L	ND	10.0	06/21/11 07:32	
2,4-Dinitrophenol	ug/L	ND	50.0	06/21/11 07:32	
2,4-Dinitrotoluene	ug/L	ND	10.0	06/21/11 07:32	
2,6-Dinitrotoluene	ug/L	ND	10.0	06/21/11 07:32	
2-Chloronaphthalene	ug/L	ND	10.0	06/21/11 07:32	
2-Chlorophenol	ug/L	ND	10.0	06/21/11 07:32	
2-Methylnaphthalene	ug/L	ND	10.0	06/21/11 07:32	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/21/11 07:32	
2-Nitroaniline	ug/L	ND	50.0	06/21/11 07:32	
2-Nitrophenol	ug/L	ND	10.0	06/21/11 07:32	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	06/21/11 07:32	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/21/11 07:32	
3-Nitroaniline	ug/L	ND	50.0	06/21/11 07:32	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	06/21/11 07:32	
4-Bromophenylphenyl ether	ug/L	ND	10.0	06/21/11 07:32	
4-Chloro-3-methylphenol	ug/L	ND	20.0	06/21/11 07:32	
4-Chloroaniline	ug/L	ND	20.0	06/21/11 07:32	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	06/21/11 07:32	
4-Nitroaniline	ug/L	ND	20.0	06/21/11 07:32	
4-Nitrophenol	ug/L	ND	50.0	06/21/11 07:32	
Acenaphthene	ug/L	ND	10.0	06/21/11 07:32	
Acenaphthylene	ug/L	ND	10.0	06/21/11 07:32	
Aniline	ug/L	ND	10.0	06/21/11 07:32	
Anthracene	ug/L	ND	10.0	06/21/11 07:32	
Benzo(a)anthracene	ug/L	ND	10.0	06/21/11 07:32	
Benzo(a)pyrene	ug/L	ND	10.0	06/21/11 07:32	
Benzo(b)fluoranthene	ug/L	ND	10.0	06/21/11 07:32	
Benzo(g,h,i)perylene	ug/L	ND	10.0	06/21/11 07:32	
Benzo(k)fluoranthene	ug/L	ND	10.0	06/21/11 07:32	
Benzoic Acid	ug/L	ND	50.0	06/21/11 07:32	
Benzyl alcohol	ug/L	ND	20.0	06/21/11 07:32	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	06/21/11 07:32	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	06/21/11 07:32	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	06/21/11 07:32	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	06/21/11 07:32	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296482

METHOD BLANK: 623395 Matrix: Water

Associated Lab Samples: 9296482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	06/21/11 07:32	
Chrysene	ug/L	ND	10.0	06/21/11 07:32	
Di-n-butylphthalate	ug/L	ND	10.0	06/21/11 07:32	
Di-n-octylphthalate	ug/L	ND	10.0	06/21/11 07:32	
Dibenz(a,h)anthracene	ug/L	ND	10.0	06/21/11 07:32	
Dibenzofuran	ug/L	ND	10.0	06/21/11 07:32	
Diethylphthalate	ug/L	ND	10.0	06/21/11 07:32	
Dimethylphthalate	ug/L	ND	10.0	06/21/11 07:32	
Fluoranthene	ug/L	ND	10.0	06/21/11 07:32	
Fluorene	ug/L	ND	10.0	06/21/11 07:32	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/21/11 07:32	
Hexachlorobenzene	ug/L	ND	10.0	06/21/11 07:32	
Hexachlorocyclopentadiene	ug/L	ND	10.0	06/21/11 07:32	
Hexachloroethane	ug/L	ND	10.0	06/21/11 07:32	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	06/21/11 07:32	
Isophorone	ug/L	ND	10.0	06/21/11 07:32	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	06/21/11 07:32	
N-Nitrosodimethylamine	ug/L	ND	10.0	06/21/11 07:32	
N-Nitrosodiphenylamine	ug/L	ND	10.0	06/21/11 07:32	
Naphthalene	ug/L	ND	10.0	06/21/11 07:32	
Nitrobenzene	ug/L	ND	10.0	06/21/11 07:32	
Pentachlorophenol	ug/L	ND	25.0	06/21/11 07:32	
Phenanthrene	ug/L	ND	10.0	06/21/11 07:32	
Phenol	ug/L	ND	10.0	06/21/11 07:32	
Pyrene	ug/L	ND	10.0	06/21/11 07:32	
2,4,6-Tribromophenol (S)	%	35	27-110	06/21/11 07:32	
2-Fluorobiphenyl (S)	%	58	27-110	06/21/11 07:32	
2-Fluorophenol (S)	%	30	12-110	06/21/11 07:32	
Nitrobenzene-d5 (S)	%	58	21-110	06/21/11 07:32	
Phenol-d6 (S)	%	22	10-110	06/21/11 07:32	
Terphenyl-d14 (S)	%	67	31-107	06/21/11 07:32	

LABORATORY CONTROL SAMPLE & LCSD: 623396 623397

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	29.1	28.4	58	57	10-110	2	30	
1,2-Dichlorobenzene	ug/L	50	25.7	24.1	51	48	10-110	6	30	
1,3-Dichlorobenzene	ug/L	50	23.2	21.8	46	44	10-110	6	30	
1,4-Dichlorobenzene	ug/L	50	24.3	22.8	49	46	10-110	6	30	
1-Methylnaphthalene	ug/L	50	33.6	31.7	67	63	21-110	6	30	
2,4,5-Trichlorophenol	ug/L	50	32.6	24.5	65	49	23-116	28	30	
2,4,6-Trichlorophenol	ug/L	50	37.5	21.3	75	43	21-114	55	30	R1
2,4-Dichlorophenol	ug/L	50	36.1	31.7	72	63	22-120	13	30	
2,4-Dimethylphenol	ug/L	50	33.9	33.0	68	66	15-109	3	30	
2,4-Dinitrophenol	ug/L	250	83.9	32.1J	34	13	10-103		30	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296482

LABORATORY CONTROL SAMPLE & LCSD: 623396 623397

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/L	50	38.8	38.2	78	76	24-119	2	30	
2,6-Dinitrotoluene	ug/L	50	39.6	39.0	79	78	25-116	1	30	
2-Chloronaphthalene	ug/L	50	35.1	35.0	70	70	18-110	0	30	
2-Chlorophenol	ug/L	50	31.0	26.8	62	54	10-104	14	30	
2-Methylnaphthalene	ug/L	50	33.4	31.6	67	63	16-110	6	30	
2-Methylphenol(o-Cresol)	ug/L	50	26.4	26.6	53	53	13-110	1	30	
2-Nitroaniline	ug/L	100	80.3	77.4	80	77	20-117	4	30	
2-Nitrophenol	ug/L	50	33.7	24.3	67	49	16-108	32	30	R1
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.8	24.7	50	49	14-110	0	30	
3,3'-Dichlorobenzidine	ug/L	100	83.5	78.2	84	78	13-131	7	30	
3-Nitroaniline	ug/L	100	77.7	77.5	78	78	15-117	0	30	
4,6-Dinitro-2-methylphenol	ug/L	100	66.1	20.3	66	20	13-119	106	30	R1
4-Bromophenylphenyl ether	ug/L	50	35.7	35.3	71	71	23-120	1	30	
4-Chloro-3-methylphenol	ug/L	100	76.4	72.5	76	73	21-119	5	30	
4-Chloroaniline	ug/L	100	77.7	75.3	78	75	10-122	3	30	
4-Chlorophenylphenyl ether	ug/L	50	36.5	36.3	73	73	22-112	1	30	
4-Nitroaniline	ug/L	100	73.3	70.1	73	70	14-118	4	30	
4-Nitrophenol	ug/L	250	62.3	20.7J	25	8	10-110		30	L2,R1
Acenaphthene	ug/L	50	34.5	34.5	69	69	20-105	0	30	
Acenaphthylene	ug/L	50	33.0	32.6	66	65	23-106	1	30	
Aniline	ug/L	50	28.7	29.0	57	58	10-110	1	30	
Anthracene	ug/L	50	37.8	37.3	76	75	25-120	1	30	
Benzo(a)anthracene	ug/L	50	38.4	37.6	77	75	21-128	2	30	
Benzo(a)pyrene	ug/L	50	36.6	36.5	73	73	25-116	0	30	
Benzo(b)fluoranthene	ug/L	50	35.5	36.7	71	73	23-117	3	30	
Benzo(g,h,i)perylene	ug/L	50	37.4	36.5	75	73	17-128	2	30	
Benzo(k)fluoranthene	ug/L	50	37.4	36.4	75	73	25-127	3	30	
Benzoic Acid	ug/L	250	ND	ND	2	2	10-110		30	L2
Benzyl alcohol	ug/L	100	67.3	66.2	67	66	10-101	2	30	
bis(2-Chloroethoxy)methane	ug/L	50	34.3	33.4	69	67	19-107	2	30	
bis(2-Chloroethyl) ether	ug/L	50	31.0	29.8	62	60	10-108	4	30	
bis(2-Chloroisopropyl) ether	ug/L	50	30.6	28.8	61	58	10-108	6	30	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.8	40.4	82	81	16-123	1	30	
Butylbenzylphthalate	ug/L	50	38.4	37.3	77	75	20-118	3	30	
Chrysene	ug/L	50	38.4	37.5	77	75	24-125	2	30	
Di-n-butylphthalate	ug/L	50	38.1	37.4	76	75	23-115	2	30	
Di-n-octylphthalate	ug/L	50	40.8	39.8	82	80	20-115	3	30	
Dibenz(a,h)anthracene	ug/L	50	38.2	36.7	76	73	18-131	4	30	
Dibenzofuran	ug/L	50	35.0	35.1	70	70	23-106	0	30	
Diethylphthalate	ug/L	50	35.7	35.0	71	70	24-115	2	30	
Dimethylphthalate	ug/L	50	37.5	36.6	75	73	22-113	2	30	
Fluoranthene	ug/L	50	36.6	35.8	73	72	24-125	2	30	
Fluorene	ug/L	50	34.4	34.4	69	69	24-114	0	30	
Hexachloro-1,3-butadiene	ug/L	50	24.7	25.5	49	51	10-110	3	30	
Hexachlorobenzene	ug/L	50	36.4	36.3	73	73	22-127	0	30	
Hexachlorocyclopentadiene	ug/L	50	30.0	30.4	60	61	10-110	1	30	
Hexachloroethane	ug/L	50	21.3	20.4	43	41	10-110	4	30	
Indeno(1,2,3-cd)pyrene	ug/L	50	37.8	36.7	76	73	18-130	3	30	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296482

LABORATORY CONTROL SAMPLE & LCSD: 623396 623397

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/L	50	39.5	37.6	79	75	23-114	5	30	
N-Nitroso-di-n-propylamine	ug/L	50	37.4	33.7	75	67	21-114	11	30	
N-Nitrosodimethylamine	ug/L	50	18.5	21.3	37	43	10-110	14	30	
N-Nitrosodiphenylamine	ug/L	50	35.6	34.7	71	69	24-123	3	30	
Naphthalene	ug/L	50	30.2	29.2	60	58	14-110	3	30	
Nitrobenzene	ug/L	50	35.1	34.6	70	69	16-106	1	30	
Pentachlorophenol	ug/L	100	64.7	18.1J	65	18	10-123		30	
Phenanthrene	ug/L	50	35.7	35.1	71	70	25-119	2	30	
Phenol	ug/L	50	12.7	12.9	25	26	10-110	2	30	
Pyrene	ug/L	50	34.6	33.6	69	67	22-127	3	30	
2,4,6-Tribromophenol (S)	%				81	53	27-110			
2-Fluorobiphenyl (S)	%				70	70	27-110			
2-Fluorophenol (S)	%				37	24	12-110			
Nitrobenzene-d5 (S)	%				69	68	21-110			
Phenol-d6 (S)	%				24	25	10-110			
Terphenyl-d14 (S)	%				73	71	31-107			

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QUALIFIERS

Project: PPA-040
Pace Project No.: 9296482

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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.

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LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
R1	RPD value was outside control limits.

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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.

Page: of

1474586

Section A Required Client Information:

Company: Hart + Hickman
Address: 2923 S Tryon St, Charlotte NC 28203
Email To: Short@harthickman.com
Phone: 704 586 0007 Fax:
Requested Due Date/TAT: Monday 6/20

Section B Required Project Information:

Report To: Short@harthickman.com
Copy To: jlopez@harthickman.com
Purchase Order No.:
Project Name:
Project Number: IPA-040

Section C Invoice Information:

Attention: Cynthia Wells
Company Name:
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 DATE	COLLECTED 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)	8270 SVOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TW HH-13	WT		6/6/11	1830														X		9296482001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6/16/11	19:15	Pace Asheville [signature]	6/16/11	19:19	4.6	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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hart & Hickman Project # 92916482

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Optional
Proj. Due Date:
Proj. Name:

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 4.6 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TMW 6/17/11

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Sample collected on 6/16/11 @ 6.

SCURF Review: [illegible] Date: 6/17/11 **SRF Review:** [illegible] Date: 6/17/11

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)

CERTIFICATIONS

Project: PPA-040
Pace Project No.: 9296382

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: PPA-040
Pace Project No.: 9296382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9296382001	**HH-18 (5')**	Solid	06/15/11 09:50	06/15/11 16:45
9296382002	**HH-23 (5')**	Solid	06/15/11 13:15	06/15/11 16:45
9296382003	**HH-22 (9')**	Solid	06/15/11 13:55	06/15/11 16:45
9296382004	**HH-25 (12')**	Solid	06/15/11 11:50	06/15/11 16:45
9296382005	**HH-24 (12')**	Solid	06/15/11 12:40	06/15/11 16:45
9296382006	**HH-20 (2')**	Solid	06/15/11 14:15	06/15/11 16:45
9296382007	**HH-17 (2')**	Solid	06/15/11 15:05	06/15/11 16:45

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Asheville, NC 28804
(828)254-7176

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

SAMPLE ANALYTE COUNT

Project: PPA-040
Pace Project No.: 9296382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9296382001	**HH-18 (5')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JMM	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296382002	**HH-23 (5')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JMM	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296382003	**HH-22 (9')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JMM	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296382004	**HH-25 (12')**	EPA 8015 Modified	RES	2	PASI-C
		9071B	CLW	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9296382005	**HH-24 (12')**	EPA 8015 Modified	RES	2	PASI-C
		9071B	CLW	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
9296382006	**HH-20 (2')**	EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	JMM	1	PASI-C
		EPA 7196	LEP	1	PASI-A
9296382007	**HH-17 (2')**	9071B	CLW	1	PASI-C
		EPA 6010	JMW	13	PASI-A
		EPA 7471	JMW	1	PASI-A
		ASTM D2974-87	JMM	1	PASI-C
		EPA 7196	LEP	1	PASI-A

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-18 (5') **Lab ID: 9296382001** Collected: 06/15/11 09:50 Received: 06/15/11 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-36-0	
Arsenic	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-38-2	
Beryllium	**0.83**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 11:36	7440-41-7	
Cadmium	**2.1**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 11:36	7440-43-9	
Chromium	**16.3**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-47-3	
Copper	**49.3**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-50-8	
Lead	**9.5**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7439-92-1	
Manganese	**1080**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7439-96-5	
Nickel	**11.4**	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-02-0	
Selenium	**2.6**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:36	7782-49-2	
Silver	ND	mg/kg	0.59	1	06/16/11 17:10	06/17/11 11:36	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:36	7440-28-0	
Zinc	**34.0**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:36	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0082**	mg/kg	0.0061	1	06/16/11 15:00	06/17/11 14:30	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.3**	%	0.10	1		06/17/11 08:58		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	6.9	1	06/17/11 14:32	06/17/11 14:29	18540-29-9	N2

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-23 (5') **Lab ID: 9296382002** Collected: 06/15/11 13:15 Received: 06/15/11 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-36-0	
Arsenic	ND	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-38-2	
Beryllium	**0.83**	mg/kg	0.085	1	06/16/11 17:10	06/17/11 11:42	7440-41-7	
Cadmium	**1.4**	mg/kg	0.085	1	06/16/11 17:10	06/17/11 11:42	7440-43-9	
Chromium	**10.9**	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-47-3	
Copper	**73.3**	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-50-8	
Lead	**11.3**	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7439-92-1	
Manganese	**459**	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7439-96-5	
Nickel	**8.4**	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-02-0	
Selenium	**2.0**	mg/kg	0.85	1	06/16/11 17:10	06/17/11 11:42	7782-49-2	
Silver	ND	mg/kg	0.43	1	06/16/11 17:10	06/17/11 11:42	7440-22-4	
Thallium	ND	mg/kg	0.85	1	06/16/11 17:10	06/17/11 11:42	7440-28-0	
Zinc	**43.2**	mg/kg	0.85	1	06/16/11 17:10	06/17/11 11:42	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0058**	mg/kg	0.0046	1	06/16/11 15:00	06/17/11 14:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.0**	%	0.10	1		06/17/11 08:58		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.4	1	06/17/11 14:32	06/17/11 14:29	18540-29-9	N2

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-22 (9') **Lab ID: 9296382003** Collected: 06/15/11 13:55 Received: 06/15/11 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-36-0	
Arsenic	ND	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-38-2	
Beryllium	**0.91**	mg/kg	0.084	1	06/16/11 17:10	06/17/11 11:46	7440-41-7	
Cadmium	**2.3**	mg/kg	0.084	1	06/16/11 17:10	06/17/11 11:46	7440-43-9	
Chromium	**17.8**	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-47-3	
Copper	**36.7**	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-50-8	
Lead	**7.1**	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7439-92-1	
Manganese	**614**	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7439-96-5	
Nickel	**4.1**	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-02-0	
Selenium	**1.7**	mg/kg	0.84	1	06/16/11 17:10	06/17/11 11:46	7782-49-2	
Silver	ND	mg/kg	0.42	1	06/16/11 17:10	06/17/11 11:46	7440-22-4	
Thallium	ND	mg/kg	0.84	1	06/16/11 17:10	06/17/11 11:46	7440-28-0	
Zinc	**43.8**	mg/kg	0.84	1	06/16/11 17:10	06/17/11 11:46	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0047	1	06/16/11 15:00	06/17/11 14:46	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.5**	%	0.10	1		06/17/11 08:59		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	2.0	1	06/17/11 14:32	06/17/11 14:29	18540-29-9	N2

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-25 (12') **Lab ID: 9296382004** Collected: 06/15/11 11:50 Received: 06/15/11 16:45 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	06/16/11 09:45	06/16/11 23:24	68334-30-5	
n-Pentacosane (S)	46	%	41-119	1	06/16/11 09:45	06/16/11 23:24	629-99-2	
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	ND	mg/kg	73.9	1	06/16/11 10:46	06/16/11 11:35		
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.8	1	06/16/11 15:46	06/17/11 01:35	8006-61-9	
4-Bromofluorobenzene (S)	141	%	70-167	1	06/16/11 15:46	06/17/11 01:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.3**	%	0.10	1		06/17/11 08:59		

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-24 (12') **Lab ID: 9296382005** Collected: 06/15/11 12:40 Received: 06/15/11 16:45 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	06/16/11 09:45	06/16/11 23:24	68334-30-5	
n-Pentacosane (S)	64	%	41-119	1	06/16/11 09:45	06/16/11 23:24	629-99-2	
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	ND	mg/kg	79.1	1	06/16/11 10:47	06/16/11 11:35		
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.1	1	06/16/11 15:46	06/17/11 02:00	8006-61-9	
4-Bromofluorobenzene (S)	105	%	70-167	1	06/16/11 15:46	06/17/11 02:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.5**	%	0.10	1		06/17/11 09:00		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-20 (2') **Lab ID: 9296382006** Collected: 06/15/11 14:15 Received: 06/15/11 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-36-0	
Arsenic	**1.5**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-38-2	
Beryllium	**0.64**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 11:51	7440-41-7	
Cadmium	**2.5**	mg/kg	0.12	1	06/16/11 17:10	06/17/11 11:51	7440-43-9	
Chromium	**30.3**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-47-3	
Copper	**30.0**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-50-8	
Lead	**14.6**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7439-92-1	
Manganese	**180**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7439-96-5	
Nickel	**4.6**	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-02-0	
Selenium	**2.7**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:51	7782-49-2	
Silver	ND	mg/kg	0.58	1	06/16/11 17:10	06/17/11 11:51	7440-22-4	
Thallium	ND	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:51	7440-28-0	
Zinc	**20.5**	mg/kg	1.2	1	06/16/11 17:10	06/17/11 11:51	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.037**	mg/kg	0.0046	1	06/16/11 15:00	06/17/11 14:48	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	83-32-9	
Acenaphthylene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	208-96-8	
Aniline	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	62-53-3	
Anthracene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	120-12-7	
Benzo(a)anthracene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	56-55-3	
Benzo(a)pyrene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	207-08-9	
Benzoic Acid	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	65-85-0	
Benzyl alcohol	ND	ug/kg	836	1	06/16/11 14:10	06/17/11 15:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	101-55-3	
Butylbenzylphthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	836	1	06/16/11 14:10	06/17/11 15:05	59-50-7	
4-Chloroaniline	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	108-60-1	
2-Chloronaphthalene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	91-58-7	
2-Chlorophenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	7005-72-3	
Chrysene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	53-70-3	
Dibenzofuran	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	106-46-7	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-20 (2') **Lab ID: 9296382006** Collected: 06/15/11 14:15 Received: 06/15/11 16:45 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							
3,3'-Dichlorobenzidine	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	120-83-2	
Diethylphthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	105-67-9	
Dimethylphthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	131-11-3	
Di-n-butylphthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	836	1	06/16/11 14:10	06/17/11 15:05	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	606-20-2	
Di-n-octylphthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	117-81-7	
Fluoranthene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	206-44-0	
Fluorene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	87-68-3	
Hexachlorobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	77-47-4	
Hexachloroethane	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	193-39-5	
Isophorone	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	78-59-1	
1-Methylnaphthalene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	90-12-0	
2-Methylnaphthalene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05		
Naphthalene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	91-20-3	
2-Nitroaniline	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	88-74-4	
3-Nitroaniline	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	99-09-2	
4-Nitroaniline	ND	ug/kg	836	1	06/16/11 14:10	06/17/11 15:05	100-01-6	
Nitrobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	98-95-3	
2-Nitrophenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	88-75-5	
4-Nitrophenol	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	86-30-6	
Pentachlorophenol	ND	ug/kg	2090	1	06/16/11 14:10	06/17/11 15:05	87-86-5	
Phenanthrene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	85-01-8	
Phenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	108-95-2	
Pyrene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	418	1	06/16/11 14:10	06/17/11 15:05	88-06-2	
Nitrobenzene-d5 (S)	58	%	23-110	1	06/16/11 14:10	06/17/11 15:05	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-110	1	06/16/11 14:10	06/17/11 15:05	321-60-8	
Terphenyl-d14 (S)	76	%	28-110	1	06/16/11 14:10	06/17/11 15:05	1718-51-0	
Phenol-d6 (S)	51	%	22-110	1	06/16/11 14:10	06/17/11 15:05	13127-88-3	
2-Fluorophenol (S)	47	%	13-110	1	06/16/11 14:10	06/17/11 15:05	367-12-4	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-20 (2') **Lab ID: 9296382006** Collected: 06/15/11 14:15 Received: 06/15/11 16:45 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							
2,4,6-Tribromophenol (S)	59	%	27-110	1	06/16/11 14:10	06/17/11 15:05	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	106	1		06/16/11 15:19	67-64-1	
Benzene	ND	ug/kg	5.3	1		06/16/11 15:19	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		06/16/11 15:19	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		06/16/11 15:19	75-27-4	
Bromoform	ND	ug/kg	5.3	1		06/16/11 15:19	75-25-2	
Bromomethane	ND	ug/kg	10.6	1		06/16/11 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	106	1		06/16/11 15:19	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		06/16/11 15:19	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	108-90-7	
Chloroethane	ND	ug/kg	10.6	1		06/16/11 15:19	75-00-3	
Chloroform	ND	ug/kg	5.3	1		06/16/11 15:19	67-66-3	
Chloromethane	ND	ug/kg	10.6	1		06/16/11 15:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		06/16/11 15:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		06/16/11 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		06/16/11 15:19	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		06/16/11 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		06/16/11 15:19	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		06/16/11 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.6	1		06/16/11 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		06/16/11 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		06/16/11 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		06/16/11 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		06/16/11 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		06/16/11 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		06/16/11 15:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		06/16/11 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		06/16/11 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		06/16/11 15:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		06/16/11 15:19	108-20-3	
Ethylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		06/16/11 15:19	87-68-3	
2-Hexanone	ND	ug/kg	53.1	1		06/16/11 15:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		06/16/11 15:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		06/16/11 15:19	99-87-6	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-20 (2') **Lab ID: 9296382006** Collected: 06/15/11 14:15 Received: 06/15/11 16:45 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							
Methylene Chloride	ND	ug/kg	21.2	1		06/16/11 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.1	1		06/16/11 15:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		06/16/11 15:19	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		06/16/11 15:19	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	103-65-1	
Styrene	ND	ug/kg	5.3	1		06/16/11 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		06/16/11 15:19	127-18-4	
Toluene	ND	ug/kg	5.3	1		06/16/11 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		06/16/11 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		06/16/11 15:19	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		06/16/11 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		06/16/11 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		06/16/11 15:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		06/16/11 15:19	108-67-8	
Vinyl acetate	ND	ug/kg	53.1	1		06/16/11 15:19	108-05-4	
Vinyl chloride	ND	ug/kg	10.6	1		06/16/11 15:19	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		06/16/11 15:19	1330-20-7	
m&p-Xylene	ND	ug/kg	10.6	1		06/16/11 15:19	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		06/16/11 15:19	95-47-6	
Dibromofluoromethane (S)	95	%	70-130	1		06/16/11 15:19	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		06/16/11 15:19	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		06/16/11 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1		06/16/11 15:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.0**	%	0.10	1		06/17/11 09:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	5.3	1	06/17/11 14:32	06/17/11 14:29	18540-29-9	N2

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: PPA-040
Pace Project No.: 9296382

Sample: HH-17 (2') **Lab ID: 9296382007** Collected: 06/15/11 15:05 Received: 06/15/11 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9071 Oil and Grease	Analytical Method: 9071B Preparation Method: 9071B							
Oil and Grease	ND	mg/kg	70.8	1	06/16/11 10:47	06/16/11 11:35		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-36-0	
Arsenic	ND	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-38-2	
Beryllium	ND	mg/kg	0.073	1	06/16/11 17:10	06/17/11 11:56	7440-41-7	
Cadmium	**1.7**	mg/kg	0.073	1	06/16/11 17:10	06/17/11 11:56	7440-43-9	
Chromium	**28.4**	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-47-3	
Copper	**63.6**	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-50-8	
Lead	**1.9**	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7439-92-1	
Manganese	**152**	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7439-96-5	
Nickel	**30.4**	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-02-0	
Selenium	ND	mg/kg	0.73	1	06/16/11 17:10	06/17/11 11:56	7782-49-2	
Silver	ND	mg/kg	0.37	1	06/16/11 17:10	06/17/11 11:56	7440-22-4	
Thallium	**1.2**	mg/kg	0.73	1	06/16/11 17:10	06/17/11 11:56	7440-28-0	
Zinc	**67.5**	mg/kg	0.73	1	06/16/11 17:10	06/17/11 11:56	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0030	1	06/16/11 15:00	06/17/11 14:51	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**1.2**	%	0.10	1		06/17/11 09:01		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196							
Chromium, Hexavalent	ND	mg/kg	2.9	1	06/17/11 14:32	06/17/11 14:29	18540-29-9	N2

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: OEXT/13950 | Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 | Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 9296382004, 9296382005

METHOD BLANK: 621575 | Matrix: Solid
Associated Lab Samples: 9296382004, 9296382005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	06/16/11 18:13	
n-Pentacosane (S)	%	69	41-119	06/16/11 18:13	

LABORATORY CONTROL SAMPLE: 621576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	56.4	85	49-113	
n-Pentacosane (S)	%			76	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621577 621578

Parameter	Units	9295564015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Components	mg/kg	6.4	81.1	81.1	63.2	57.3	70	63	10-146	10	30	
n-Pentacosane (S)	%						70	69	41-119			

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: GCSV/9976 Analysis Method: 9071B
QC Batch Method: 9071B Analysis Description: 9071 Oil and Grease
Associated Lab Samples: 9296382004, 9296382005, 9296382007

METHOD BLANK: 621551 Matrix: Solid
Associated Lab Samples: 9296382004, 9296382005, 9296382007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/kg	ND	70.0	06/16/11 11:34	

LABORATORY CONTROL SAMPLE: 621552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	1330	1300	98	78-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621553 621554

Parameter	Units	9296015006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil and Grease	mg/kg	ND	1440	1440	1220	1230	84	85	78-114	1	20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: GCV/5127
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015 Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9296382004, 9296382005

METHOD BLANK: 621977
Matrix: Solid
Associated Lab Samples: 9296382004, 9296382005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	06/16/11 23:31	
4-Bromofluorobenzene (S)	%	98	70-167	06/16/11 23:31	

LABORATORY CONTROL SAMPLE: 621978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	26.2	105	70-165	
4-Bromofluorobenzene (S)	%			90	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621979 621980

Parameter	Units	9296067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	28.8	28.8	38.5	41.1	134	143	47-187	7	30	
4-Bromofluorobenzene (S)	%						97	105	70-167			

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: MPRP/8561 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

METHOD BLANK: 621972 Matrix: Solid
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.50	06/16/11 23:07	
Arsenic	mg/kg	ND	0.50	06/16/11 23:07	
Beryllium	mg/kg	ND	0.10	06/16/11 23:07	
Cadmium	mg/kg	ND	0.10	06/16/11 23:07	
Chromium	mg/kg	ND	0.50	06/16/11 23:07	
Copper	mg/kg	ND	0.50	06/16/11 23:07	
Lead	mg/kg	ND	0.50	06/16/11 23:07	
Manganese	mg/kg	ND	0.50	06/16/11 23:07	
Nickel	mg/kg	ND	0.50	06/16/11 23:07	
Selenium	mg/kg	ND	1.0	06/16/11 23:07	
Silver	mg/kg	ND	0.50	06/16/11 23:07	
Thallium	mg/kg	ND	1.0	06/16/11 23:07	
Zinc	mg/kg	ND	1.0	06/16/11 23:07	

LABORATORY CONTROL SAMPLE: 621973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	46.9	94	80-120	
Arsenic	mg/kg	50	46.6	93	80-120	
Beryllium	mg/kg	50	46.9	94	80-120	
Cadmium	mg/kg	50	45.8	92	80-120	
Chromium	mg/kg	50	46.7	93	80-120	
Copper	mg/kg	50	48.5	97	80-120	
Lead	mg/kg	50	47.0	94	80-120	
Manganese	mg/kg	50	45.7	91	80-120	
Nickel	mg/kg	50	46.3	93	80-120	
Selenium	mg/kg	50	46.7	93	80-120	
Silver	mg/kg	25	23.7	95	80-120	
Thallium	mg/kg	50	46.5	93	80-120	
Zinc	mg/kg	50	46.4	93	80-120	

MATRIX SPIKE SAMPLE: 621974

Parameter	Units	9295995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	ND	55.4	49.9	90	75-125	
Arsenic	mg/kg	0.80	55.4	50.4	90	75-125	
Beryllium	mg/kg	ND	55.4	52.2	94	75-125	
Cadmium	mg/kg	ND	55.4	49.5	89	75-125	
Chromium	mg/kg	4.2	55.4	58.1	97	75-125	
Copper	mg/kg	2.3	55.4	59.3	103	75-125	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

MATRIX SPIKE SAMPLE: 621974

Parameter	Units	9295995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	5.1	55.4	55.3	91	75-125	
Manganese	mg/kg	2.6	55.4	53.0	91	75-125	
Nickel	mg/kg	ND	55.4	50.8	91	75-125	
Selenium	mg/kg	ND	55.4	51.4	92	75-125	
Silver	mg/kg	ND	27.7	27.2	98	75-125	
Thallium	mg/kg	ND	55.4	49.6	89	75-125	
Zinc	mg/kg	6.5	55.4	61.2	99	75-125	

SAMPLE DUPLICATE: 621975

Parameter	Units	9295995002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	mg/kg	ND	ND		20	
Arsenic	mg/kg	1.8	1.6	10	20	
Beryllium	mg/kg	0.31	0.28	8	20	
Cadmium	mg/kg	ND	ND		20	
Chromium	mg/kg	5.3	5.6	6	20	
Copper	mg/kg	8.7	8.6	2	20	
Lead	mg/kg	83.2	45.4	59	20	R1
Manganese	mg/kg	10.7	9.1	16	20	
Nickel	mg/kg	1.2	1.2	1	20	
Selenium	mg/kg	ND	.52J		20	
Silver	mg/kg	ND	ND		20	
Thallium	mg/kg	ND	ND		20	
Zinc	mg/kg	38.7	38.4	1	20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: MERP/3552 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

METHOD BLANK: 621668 Matrix: Solid
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	06/17/11 14:19	

LABORATORY CONTROL SAMPLE: 621669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.066	98	80-120	

MATRIX SPIKE SAMPLE: 621670

Parameter	Units	9296027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.062	0.045	70	75-125	M0

SAMPLE DUPLICATE: 621671

Parameter	Units	9296382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.0082	.0052J		20	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: OEXT/13958
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9296382006

METHOD BLANK: 621845
Matrix: Solid
Associated Lab Samples: 9296382006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	06/17/11 15:33	
1,2-Dichlorobenzene	ug/kg	ND	330	06/17/11 15:33	
1,3-Dichlorobenzene	ug/kg	ND	330	06/17/11 15:33	
1,4-Dichlorobenzene	ug/kg	ND	330	06/17/11 15:33	
1-Methylnaphthalene	ug/kg	ND	330	06/17/11 15:33	
2,4,5-Trichlorophenol	ug/kg	ND	330	06/17/11 15:33	
2,4,6-Trichlorophenol	ug/kg	ND	330	06/17/11 15:33	
2,4-Dichlorophenol	ug/kg	ND	330	06/17/11 15:33	
2,4-Dimethylphenol	ug/kg	ND	330	06/17/11 15:33	
2,4-Dinitrophenol	ug/kg	ND	1650	06/17/11 15:33	
2,4-Dinitrotoluene	ug/kg	ND	330	06/17/11 15:33	
2,6-Dinitrotoluene	ug/kg	ND	330	06/17/11 15:33	
2-Chloronaphthalene	ug/kg	ND	330	06/17/11 15:33	
2-Chlorophenol	ug/kg	ND	330	06/17/11 15:33	
2-Methylnaphthalene	ug/kg	ND	330	06/17/11 15:33	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	06/17/11 15:33	
2-Nitroaniline	ug/kg	ND	1650	06/17/11 15:33	
2-Nitrophenol	ug/kg	ND	330	06/17/11 15:33	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	06/17/11 15:33	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	06/17/11 15:33	
3-Nitroaniline	ug/kg	ND	1650	06/17/11 15:33	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	06/17/11 15:33	
4-Bromophenylphenyl ether	ug/kg	ND	330	06/17/11 15:33	
4-Chloro-3-methylphenol	ug/kg	ND	660	06/17/11 15:33	
4-Chloroaniline	ug/kg	ND	1650	06/17/11 15:33	
4-Chlorophenylphenyl ether	ug/kg	ND	330	06/17/11 15:33	
4-Nitroaniline	ug/kg	ND	660	06/17/11 15:33	
4-Nitrophenol	ug/kg	ND	1650	06/17/11 15:33	
Acenaphthene	ug/kg	ND	330	06/17/11 15:33	
Acenaphthylene	ug/kg	ND	330	06/17/11 15:33	
Aniline	ug/kg	ND	330	06/17/11 15:33	
Anthracene	ug/kg	ND	330	06/17/11 15:33	
Benzo(a)anthracene	ug/kg	ND	330	06/17/11 15:33	
Benzo(a)pyrene	ug/kg	ND	330	06/17/11 15:33	
Benzo(b)fluoranthene	ug/kg	ND	330	06/17/11 15:33	
Benzo(g,h,i)perylene	ug/kg	ND	330	06/17/11 15:33	
Benzo(k)fluoranthene	ug/kg	ND	330	06/17/11 15:33	
Benzoic Acid	ug/kg	ND	1650	06/17/11 15:33	
Benzyl alcohol	ug/kg	ND	660	06/17/11 15:33	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	06/17/11 15:33	
bis(2-Chloroethyl) ether	ug/kg	ND	330	06/17/11 15:33	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	06/17/11 15:33	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	06/17/11 15:33	

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Asheville, NC 28804
(828)254-7176

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(704)875-9092

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

METHOD BLANK: 621845 Matrix: Solid

Associated Lab Samples: 9296382006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	06/17/11 15:33	
Chrysene	ug/kg	ND	330	06/17/11 15:33	
Di-n-butylphthalate	ug/kg	ND	330	06/17/11 15:33	
Di-n-octylphthalate	ug/kg	ND	330	06/17/11 15:33	
Dibenz(a,h)anthracene	ug/kg	ND	330	06/17/11 15:33	
Dibenzofuran	ug/kg	ND	330	06/17/11 15:33	
Diethylphthalate	ug/kg	ND	330	06/17/11 15:33	
Dimethylphthalate	ug/kg	ND	330	06/17/11 15:33	
Fluoranthene	ug/kg	ND	330	06/17/11 15:33	
Fluorene	ug/kg	ND	330	06/17/11 15:33	
Hexachloro-1,3-butadiene	ug/kg	ND	330	06/17/11 15:33	
Hexachlorobenzene	ug/kg	ND	330	06/17/11 15:33	
Hexachlorocyclopentadiene	ug/kg	ND	330	06/17/11 15:33	
Hexachloroethane	ug/kg	ND	330	06/17/11 15:33	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	06/17/11 15:33	
Isophorone	ug/kg	ND	330	06/17/11 15:33	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	06/17/11 15:33	
N-Nitrosodimethylamine	ug/kg	ND	330	06/17/11 15:33	
N-Nitrosodiphenylamine	ug/kg	ND	330	06/17/11 15:33	
Naphthalene	ug/kg	ND	330	06/17/11 15:33	
Nitrobenzene	ug/kg	ND	330	06/17/11 15:33	
Pentachlorophenol	ug/kg	ND	1650	06/17/11 15:33	
Phenanthrene	ug/kg	ND	330	06/17/11 15:33	
Phenol	ug/kg	ND	330	06/17/11 15:33	
Pyrene	ug/kg	ND	330	06/17/11 15:33	
2,4,6-Tribromophenol (S)	%	52	27-110	06/17/11 15:33	
2-Fluorobiphenyl (S)	%	53	30-110	06/17/11 15:33	
2-Fluorophenol (S)	%	47	13-110	06/17/11 15:33	
Nitrobenzene-d5 (S)	%	57	23-110	06/17/11 15:33	
Phenol-d6 (S)	%	48	22-110	06/17/11 15:33	
Terphenyl-d14 (S)	%	73	28-110	06/17/11 15:33	

LABORATORY CONTROL SAMPLE: 621846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1330	80	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1130	68	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1130	68	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1140	68	35-110	
1-Methylnaphthalene	ug/kg	1670	1260	75	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1180	71	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1290	77	45-111	
2,4-Dichlorophenol	ug/kg	1670	1340	80	51-116	
2,4-Dimethylphenol	ug/kg	1670	1190	72	42-103	
2,4-Dinitrophenol	ug/kg	8330	4850	58	28-103	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

LABORATORY CONTROL SAMPLE: 621846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1230	74	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1250	75	48-112	
2-Chloronaphthalene	ug/kg	1670	1300	78	44-105	
2-Chlorophenol	ug/kg	1670	1080	65	36-110	
2-Methylnaphthalene	ug/kg	1670	1210	73	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1100	66	39-101	
2-Nitroaniline	ug/kg	3330	2630	79	44-111	
2-Nitrophenol	ug/kg	1670	1180	71	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1110	67	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2060	62	10-150	
3-Nitroaniline	ug/kg	3330	2050	62	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2220	67	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1200	72	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2570	77	43-127	
4-Chloroaniline	ug/kg	3330	2140	64	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1220	73	44-115	
4-Nitroaniline	ug/kg	3330	1960	59	37-111	
4-Nitrophenol	ug/kg	8330	6210	75	21-152	
Acenaphthene	ug/kg	1670	1340	80	38-117	
Acenaphthylene	ug/kg	1670	1230	74	46-107	
Aniline	ug/kg	1670	1050	63	29-110	
Anthracene	ug/kg	1670	1300	78	50-110	
Benzo(a)anthracene	ug/kg	1670	1230	74	47-116	
Benzo(a)pyrene	ug/kg	1670	1220	73	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1310	79	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1420	85	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1280	77	45-117	
Benzoic Acid	ug/kg	8330	3020	36	16-110	
Benzyl alcohol	ug/kg	3330	2450	74	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1160	69	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1130	68	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	966	58	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1240	74	35-116	
Butylbenzylphthalate	ug/kg	1670	1230	74	38-110	
Chrysene	ug/kg	1670	1230	74	49-110	
Di-n-butylphthalate	ug/kg	1670	1210	72	43-109	
Di-n-octylphthalate	ug/kg	1670	1120	67	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1430	86	43-116	
Dibenzofuran	ug/kg	1670	1310	79	45-106	
Diethylphthalate	ug/kg	1670	1240	75	41-114	
Dimethylphthalate	ug/kg	1670	1230	74	43-110	
Fluoranthene	ug/kg	1670	1200	72	50-114	
Fluorene	ug/kg	1670	1310	79	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1340	80	28-111	
Hexachlorobenzene	ug/kg	1670	1280	77	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	1160	70	18-119	
Hexachloroethane	ug/kg	1670	1120	67	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1410	85	42-115	

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QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

LABORATORY CONTROL SAMPLE: 621846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1350	81	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1140	68	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1040	63	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1340	80	48-113	
Naphthalene	ug/kg	1670	1200	72	41-110	
Nitrobenzene	ug/kg	1670	1290	77	38-110	
Pentachlorophenol	ug/kg	3330	1910	57	32-128	
Phenanthrene	ug/kg	1670	1280	77	50-110	
Phenol	ug/kg	1670	1250	75	28-106	
Pyrene	ug/kg	1670	1370	82	45-114	
2,4,6-Tribromophenol (S)	%			75	27-110	
2-Fluorobiphenyl (S)	%			80	30-110	
2-Fluorophenol (S)	%			65	13-110	
Nitrobenzene-d5 (S)	%			79	23-110	
Phenol-d6 (S)	%			66	22-110	
Terphenyl-d14 (S)	%			81	28-110	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: MSV/15684
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9296382006

METHOD BLANK: 621674
Matrix: Solid
Associated Lab Samples: 9296382006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,1-Dichloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,1-Dichloroethene	ug/kg	ND	5.0	06/16/11 11:59	
1,1-Dichloropropene	ug/kg	ND	5.0	06/16/11 11:59	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/16/11 11:59	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/16/11 11:59	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/16/11 11:59	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,2-Dichloroethane	ug/kg	ND	5.0	06/16/11 11:59	
1,2-Dichloropropane	ug/kg	ND	5.0	06/16/11 11:59	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
1,3-Dichloropropane	ug/kg	ND	5.0	06/16/11 11:59	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
2,2-Dichloropropane	ug/kg	ND	5.0	06/16/11 11:59	
2-Butanone (MEK)	ug/kg	ND	100	06/16/11 11:59	
2-Chlorotoluene	ug/kg	ND	5.0	06/16/11 11:59	
2-Hexanone	ug/kg	ND	50.0	06/16/11 11:59	
4-Chlorotoluene	ug/kg	ND	5.0	06/16/11 11:59	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	06/16/11 11:59	
Acetone	ug/kg	ND	100	06/16/11 11:59	
Benzene	ug/kg	ND	5.0	06/16/11 11:59	
Bromobenzene	ug/kg	ND	5.0	06/16/11 11:59	
Bromochloromethane	ug/kg	ND	5.0	06/16/11 11:59	
Bromodichloromethane	ug/kg	ND	5.0	06/16/11 11:59	
Bromoform	ug/kg	ND	5.0	06/16/11 11:59	
Bromomethane	ug/kg	ND	10.0	06/16/11 11:59	
Carbon tetrachloride	ug/kg	ND	5.0	06/16/11 11:59	
Chlorobenzene	ug/kg	ND	5.0	06/16/11 11:59	
Chloroethane	ug/kg	ND	10.0	06/16/11 11:59	
Chloroform	ug/kg	ND	5.0	06/16/11 11:59	
Chloromethane	ug/kg	ND	10.0	06/16/11 11:59	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/16/11 11:59	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/16/11 11:59	
Dibromochloromethane	ug/kg	ND	5.0	06/16/11 11:59	
Dibromomethane	ug/kg	ND	5.0	06/16/11 11:59	
Dichlorodifluoromethane	ug/kg	ND	10.0	06/16/11 11:59	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

METHOD BLANK: 621674 Matrix: Solid

Associated Lab Samples: 9296382006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.0	06/16/11 11:59	
Ethylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/16/11 11:59	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/16/11 11:59	
m&p-Xylene	ug/kg	ND	10.0	06/16/11 11:59	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/16/11 11:59	
Methylene Chloride	ug/kg	ND	20.0	06/16/11 11:59	
n-Butylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
n-Propylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
Naphthalene	ug/kg	ND	5.0	06/16/11 11:59	
o-Xylene	ug/kg	ND	5.0	06/16/11 11:59	
p-Isopropyltoluene	ug/kg	ND	5.0	06/16/11 11:59	
sec-Butylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
Styrene	ug/kg	ND	5.0	06/16/11 11:59	
tert-Butylbenzene	ug/kg	ND	5.0	06/16/11 11:59	
Tetrachloroethene	ug/kg	ND	5.0	06/16/11 11:59	
Toluene	ug/kg	ND	5.0	06/16/11 11:59	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/16/11 11:59	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/16/11 11:59	
Trichloroethene	ug/kg	ND	5.0	06/16/11 11:59	
Trichlorofluoromethane	ug/kg	ND	5.0	06/16/11 11:59	
Vinyl acetate	ug/kg	ND	50.0	06/16/11 11:59	
Vinyl chloride	ug/kg	ND	10.0	06/16/11 11:59	
Xylene (Total)	ug/kg	ND	10.0	06/16/11 11:59	
1,2-Dichloroethane-d4 (S)	%	102	70-132	06/16/11 11:59	
4-Bromofluorobenzene (S)	%	98	70-130	06/16/11 11:59	
Dibromofluoromethane (S)	%	98	70-130	06/16/11 11:59	
Toluene-d8 (S)	%	105	70-130	06/16/11 11:59	

LABORATORY CONTROL SAMPLE: 621675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	65.9	132	70-131	L3
1,1,1-Trichloroethane	ug/kg	50	53.8	108	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	61.0	122	70-130	
1,1,2-Trichloroethane	ug/kg	50	54.3	109	70-132	
1,1-Dichloroethane	ug/kg	50	53.2	106	70-143	
1,1-Dichloroethene	ug/kg	50	53.1	106	70-137	
1,1-Dichloropropene	ug/kg	50	50.8	102	70-135	
1,2,3-Trichlorobenzene	ug/kg	50	57.9	116	69-153	
1,2,3-Trichloropropane	ug/kg	50	56.1	112	70-130	
1,2,4-Trichlorobenzene	ug/kg	50	59.6	119	55-171	
1,2,4-Trimethylbenzene	ug/kg	50	60.0	120	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50	58.6	117	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	61.5	123	70-130	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

LABORATORY CONTROL SAMPLE: 621675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	50	58.3	117	70-140	
1,2-Dichloroethane	ug/kg	50	51.7	103	70-137	
1,2-Dichloropropane	ug/kg	50	54.6	109	70-133	
1,3,5-Trimethylbenzene	ug/kg	50	58.7	117	70-143	
1,3-Dichlorobenzene	ug/kg	50	57.6	115	70-144	
1,3-Dichloropropane	ug/kg	50	61.8	124	70-132	
1,4-Dichlorobenzene	ug/kg	50	58.0	116	70-142	
2,2-Dichloropropane	ug/kg	50	57.2	114	68-152	
2-Butanone (MEK)	ug/kg	100	106	106	70-149	
2-Chlorotoluene	ug/kg	50	60.0	120	70-141	
2-Hexanone	ug/kg	100	124	124	70-149	
4-Chlorotoluene	ug/kg	50	62.0	124	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	114	114	70-153	
Acetone	ug/kg	100	100	100	70-157	
Benzene	ug/kg	50	49.5	99	70-130	
Bromobenzene	ug/kg	50	58.9	118	70-141	
Bromochloromethane	ug/kg	50	48.0	96	70-149	
Bromodichloromethane	ug/kg	50	57.9	116	70-130	
Bromoform	ug/kg	50	57.3	115	70-131	
Bromomethane	ug/kg	50	60.2	120	64-136	
Carbon tetrachloride	ug/kg	50	56.7	113	70-154	
Chlorobenzene	ug/kg	50	60.2	120	70-135	
Chloroethane	ug/kg	50	61.1	122	68-151	
Chloroform	ug/kg	50	53.5	107	70-130	
Chloromethane	ug/kg	50	48.0	96	70-132	
cis-1,2-Dichloroethene	ug/kg	50	52.7	105	70-140	
cis-1,3-Dichloropropene	ug/kg	50	59.0	118	70-137	
Dibromochloromethane	ug/kg	50	58.2	116	70-130	
Dibromomethane	ug/kg	50	52.4	105	70-136	
Dichlorodifluoromethane	ug/kg	50	47.2	94	36-148	
Diisopropyl ether	ug/kg	50	56.0	112	70-139	
Ethylbenzene	ug/kg	50	61.9	124	70-137	
Hexachloro-1,3-butadiene	ug/kg	50	59.9	120	70-145	
Isopropylbenzene (Cumene)	ug/kg	50	64.6	129	70-141	
m&p-Xylene	ug/kg	100	128	128	70-140	
Methyl-tert-butyl ether	ug/kg	50	54.4	109	45-150	
Methylene Chloride	ug/kg	50	55.1	110	70-133	
n-Butylbenzene	ug/kg	50	61.8	124	65-155	
n-Propylbenzene	ug/kg	50	61.0	122	70-148	
Naphthalene	ug/kg	50	62.2	124	70-148	
o-Xylene	ug/kg	50	65.4	131	70-141	
p-Isopropyltoluene	ug/kg	50	61.8	124	70-148	
sec-Butylbenzene	ug/kg	50	60.0	120	70-145	
Styrene	ug/kg	50	67.7	135	70-138	
tert-Butylbenzene	ug/kg	50	60.6	121	70-143	
Tetrachloroethene	ug/kg	50	61.9	124	70-140	
Toluene	ug/kg	50	51.6	103	70-130	
trans-1,2-Dichloroethene	ug/kg	50	52.6	105	70-136	

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

LABORATORY CONTROL SAMPLE: 621675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	50	53.7	107	70-138	
Trichloroethene	ug/kg	50	53.2	106	70-132	
Trichlorofluoromethane	ug/kg	50	49.7	99	69-134	
Vinyl acetate	ug/kg	100	101	101	24-161	
Vinyl chloride	ug/kg	50	52.6	105	55-140	
Xylene (Total)	ug/kg	150	194	129	70-141	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			109	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 622217

Parameter	Units	9296226003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	45.2	36.8	81	49-180	
Benzene	ug/kg	ND	45.2	38.0	84	50-166	
Chlorobenzene	ug/kg	ND	45.2	39.3	87	43-169	
Toluene	ug/kg	ND	45.2	38.6	86	52-163	
Trichloroethene	ug/kg	ND	45.2	39.9	88	49-167	
1,2-Dichloroethane-d4 (S)	%				82	70-132	
4-Bromofluorobenzene (S)	%				93	70-130	
Dibromofluoromethane (S)	%				89	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 622216

Parameter	Units	9296050012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	2.5J		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

SAMPLE DUPLICATE: 622216

Parameter	Units	9296050012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	1.8J		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	5.4J		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	2.3J		30	
o-Xylene	ug/kg	ND	3.8		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

SAMPLE DUPLICATE: 622216

Parameter	Units	9296050012 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	9.2		30	
1,2-Dichloroethane-d4 (S)	%	94	87	13		
4-Bromofluorobenzene (S)	%	96	96	5		
Dibromofluoromethane (S)	%	95	92	9		
Toluene-d8 (S)	%	104	101	8		

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: PMST/3996 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382004, 9296382005, 9296382006, 9296382007

SAMPLE DUPLICATE: 621892

Parameter	Units	9296382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.3	19.4	9	25	

SAMPLE DUPLICATE: 621893

Parameter	Units	9296412026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	13.1	8	25	

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: PPA-040
Pace Project No.: 9296382

QC Batch: WETA/9908 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

METHOD BLANK: 621691 Matrix: Solid
Associated Lab Samples: 9296382001, 9296382002, 9296382003, 9296382006, 9296382007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.0	06/17/11 14:24	N2

LABORATORY CONTROL SAMPLE: 621692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	50	50.4	101	90-110	N2

MATRIX SPIKE SAMPLE: 621693

Parameter	Units	9296088001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1.1	110	109	98	75-125	N2

MATRIX SPIKE SAMPLE: 621709

Parameter	Units	9296088002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1.4	76.9	73.0	93	75-125	N2

SAMPLE DUPLICATE: 621710

Parameter	Units	9296088003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	1.2	1.2J	3	20	N2

SAMPLE DUPLICATE: 621711

Parameter	Units	9296088004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	0.58	.76J	28	20	N2,R1

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ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALIFIERS

Project: PPA-040
Pace Project No.: 9296382

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

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.
N2	The lab does not hold NELAC accreditation for this parameter.
R1	RPD value was outside control limits.

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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.

Page: of

1474589

Section A Required Client Information:

Company: Hart and Hickman
Address: 2923 S. Tryon St
Charlotte NC 28203
Email To: shart@harthickman.com
Phone: 704-586-0007 Fax:
Requested Due Date/TAT: 72 hr

Section B Required Project Information:

Report To: shart@harthickman.com
Copy To: jlopez@harthickman.com
Purchase Order No.:
Project Name: PPA-040
Project Number: PPA-040

Section C Invoice Information:

Attention: Cynthia Wells
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N): HSL Metals (+Sb, As); VOCs; SVOCs; TPH GRO; TPH DRO; O+G

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED 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	HSL Metals (+Sb, As)	VOCs	SVOCs	TPH GRO	TPH DRO	O+G	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MH-18 (5')			6/15/11	0950													X							9296382001
2	MH-25 (12')				1150																X	X	X		004
3	MH-24 (12')				1240																X	X	X		005
4	MH-23 (5')				1315													X							002
5	MH-22 (9')				1355													X							003
6	MH-20 (2')				1415													X	X	X					006
7	MH-17 (2')				1505													X					X		007
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*HSL metals should include, antimony, arsenic, beryllium, cadmium, total Cr, Cr+6, Cu, Pb, Manganese, Hg, Selenium, Silver, thallium, and Zn	[signature] H&H	6/15/11	1600	[signature]	6-15	1600	4.1	Y	N	Y
	[signature]	6-15	1645	[signature]	6/15/11	1645				

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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: H+H Project # 929582

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Optional
Proj. Due Date:
Proj. Name:

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 4.1 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TM 6/15/11

				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. 72 hr
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL				
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	TM
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):_____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JL **Date:** 6/15/11 **SRF Review:** RLS **Date:** 6/15/11

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)