File BF Plant 1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

Via Federal Express (2nd Day)

November 26, 2012

Division of Waste Management
NC Department of Environment & Natural Resources
1646 Mail Service Center
Raleigh, NC 27699-1646

Attn: Sharon Poissant Eckard, PG
Brownfield Project Manager

Re: 20-Day/Initial Abatement Action Report
Heating Oil UST and Waste Oil UST
Former Curb Motorsports Museum
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

Dear Ms. Eckard:

Enclosed is a CD containing the 20-Day/Initial Abatement Action Report for the above referenced site.

If you have any questions or comments, please do not hesitate to contact me.

Sincerely,

Hart & Hickman, PC

Shannon Cottrill
Project Manager

SLC/vmg

Enclosure

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

Via Email and Federal Express (2nd Day)

November 21, 2012

North Carolina Department of Environment
and Natural Resources
Division of Waste Management UST Section
610 East Center Avenue, Suite 301
Mooresville, NC 28115

Attn: Mr. Brett Morris

Re: 20-Day/Initial Abatement Action Report
Heating Oil UST and Waste Oil UST
Former Curb Motorsports Museum
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

Dear Mr. Morris:

On behalf of Castle & Cooke NC RC Properties 3, LLC, Hart & Hickman, PC (H&H) is providing the attached 20-Day/Initial Abatement Action Report for the above referenced site. One out-of-service home heating oil UST, one out-of-service waste oil UST, and impacted soil above Maximum Soil Contaminant Concentration levels has been excavated and properly disposed. Therefore, on behalf of the current property owner, H&H requests that the release incidents associated with these UST systems receive No Further Action designations.

If you have any questions or require additional information, please do not hesitate to contact me at (704) 586-0007.

Very Truly Yours,

Hart & Hickman, PC

Shannon Cottrill
Project Manager

Attachments

cc: Mr. Tom Griffin (1 hard copy via US Mail and 1 electronic copy via Email)
Mr. Tom Sanctis (1 hard copy via US Mail and 1 electronic copy via Email)
Mr. Brad Cardwell (1 electronic copy via Email)
Ms. Sharon Eckard (1 electronic copy via Email)

20-Day/Initial Abatement Action Report
Former Curb Motorsports Museum
(Proposed Medical Office Building)
Heating Oil UST and
Waste Oil UST

201 Dale Earnhardt Boulevard
Kannapolis, North Carolina

H&H Job No. PPA-021
November 21, 2012

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007 main

3334 Hillsborough Street
Raleigh, NC 27607
919.847.4241 main

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Initial Abatement Action Report

A. Site Information

1. Site Identification

Date of Report: November 21, 2012
Facility ID: Not Applicable UST Incident Number: TBD
Site Name: Former Curb Motorsports Museum (Proposed Medical Office Building)
Site Street Address: 201 Dale Earnhardt Boulevard (formerly 218 Chestnut Avenue)
City, Town: Kannapolis Zip Code: 28081 County: Cabarrus
Description of Geographical Data Point: center of former UST basins
Location Method: Google Earth

Heating Oil UST (UST-2):
Latitude: 35º29'56.31"N Longitude: 80º37'46.84"W

Waste Oil UST (UST-3):
Latitude: 35º29'56.01"N Longitude: 80º37'44.97"W

2. Information about Contacts Associated with the Leaking UST System

UST Owner: Unknown
Address: N/A Tel.: N/A
UST Operator: Unknown
Address: Unknown Tel.: N/A
Property Owner: Castle & Cooke NCRC Properties 3, LLC
Address: 210 Oak Avenue, Kannapolis, NC 28081 Tel.: 704-938-5400
Property Occupant: unoccupied (Medical Office Building under construction)
Address: 201 Dale Earnhardt Blvd, Kannapolis, NC, 28081 Tel.: N/A
Consultant/Contractor: Hart & Hickman, PC
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203
Tel.: 704-586-0007 (Attn: Shannon Cottrill)

Heating Oil UST (UST-2):
Analytical Laboratory: Prism Laboratories, Inc. State Cert. No. 402
Address: 449 Springbrook Road, Charlotte, NC 28224 Tel.: 704-529-6364

Waste Oil UST (UST-3):
Analytical Laboratory: Pace Analytical Services, Inc. State Cert. No. 12
Address: 9800 Kincey Ave, Huntersville NC 28078 Tel.: 704-875-9092

3. Information About Release

Date Discovered: A release was suspected from the former heating oil UST system on August 10, 2012, and was confirmed by the laboratory on August 17, 2012. A second release was suspected from the former waste oil UST system on August 15, and was confirmed by the laboratory on August 24, 2012.

Estimated Quantity of Releases: Unknown
Cause of Release(s): Unknown
Source of Release(s): Non-regulated heating oil UST system and regulated waste oil UST system
Sizes and contents of UST system(s): one 500-gallon heating oil UST system and one 1,000-gallon waste oil UST system

4. Certification

I, Matt Bramblett, PE a Professional Engineer for Hart & Hickman, PC, do certify that the information contained in this report is correct and accurate to the best of my knowledge.

NORTH CAROLINA PROFESSIONAL SEAL 25069 ENGINEER MATTHEW V. BRAMBLETT

11/21/12

Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.

B. Site History and Characterization

1. UST Owner and Operator Information:

UST ID Number	UST-2 and UST-3	**Facility ID Number**	Not Applicable
Name of Owner		**Dates of Ownership**	
Unknown		Unknown	
Street Address			
Unknown			
City	**State**	**Zip**	**Telephone Number**
Unknown	Unknown	Unknown	Unknown
Name of Operator		**Dates of Operation**	
Unknown		Unknown	
Street Address			
Unknown			
City	**State**	**Zip**	**Telephone Number**
Unknown	Unknown	Unknown	Unknown

2. **UST/AST Information:**

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Approximate Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
UST-1	Heating Oil	Heating Oil	2,000	Steel/single-walled	5 ft 4-inches wide by 12 ft long	Copper piping; extended to and ended at building	Unknown	Removed 12/20/2007	Yes
UST-2	Heating Oil	Heating Oil	500	Steel/single-walled	3 ft 8-inches wide by 6 ft 5-inches long	Unknown	Unknown	Removed 8/10/2012	Yes
UST-3	Waste Oil	Waste Oil	1,000	Steel/single-walled	3 ft 10-inches wide by 11 ft 11-inches long	Unknown	Unknown	Removed 8/15/2012	Yes

Note:
DENR issued a No Further Action determination for the release incident associated with the former 2,000-gallon heating oil UST system (UST-1) on April 1, 2008.

3. **Non-UST spills at the site:**
No non-UST spills are known to have occurred at the site.

4. **Description of release:**
A 500-gallon heating oil UST (labeled UST-2) and a 1,000-gallon waste oil UST (labeled UST-3) were discovered on August 9 and August 14, 2012, respectively, during grading activities conducted by Pedulla Grading (Pedulla) and Clancy & Theys Construction Company (Clancy & Theys). Hart & Hickman, PC (H&H) was contacted by the property owner and retained to removed the USTs and evaluate the surrounding soils for evidence of impacts. Field screening with a photoionization detector (PID) indicated the presence of elevated organic vapors in the vicinity of the heating oil and waste oil USTs. H&H collected two UST closure soil samples from beneath the base of each of these tanks for analysis of total petroleum hydrocarbons (TPH) by EPA Method 8015. Closure samples labeled T1-1 (4 ft) and T1-2 (4 ft) were collected from beneath the heating oil UST, and closure samples labeled T2-1 (2 ft) and T2-2 (2 ft) were collected from beneath the waste oil UST. Please note that the above referenced sample depths were referenced as ft below ground surface (bgs) depths and were relative to the ground surface at the time of the UST closure activities. Thus, the top of the home heating oil UST was at or near the approximate ground surface at the time of UST closure activities and the top of the waste oil tank was approximately two feet higher than the existing ground surface at the time of UST closure activities due to active grading in this area.

The suspected release from the heating oil UST was confirmed on August 17, 2012 upon receipt of laboratory analytical data for T1-1 (4 ft) and T1-2 (4 ft). Concentrations of TPH as diesel-range organics (TPH-DRO) up to 8,400 mg/kg and TPH as gasoline-range organics (TPH-GRO) up to 96 mg/kg were detected in the UST closure soil samples collected beneath the heating oil UST. The suspected release from the waste oil UST was confirmed on August 22, 2012 upon the receipt of laboratory analytical data for T2-1 (2 ft) and T2-2 (2 ft). Concentrations of TPH-DRO up to 5,130 mg/kg and TPH-GRO up to 125 mg/kg were detected in the UST closure soil samples collected beneath the waste oil UST. Analytical results of the heating oil and waste oil UST closure soil samples are summarized in Tables 1A and 1B, respectively.

Based on evidence of the suspected releases, H&H submitted the 24-Hour Release and UST Leak Reporting form (UST-61) to the North Carolina Department of Environment and Natural Resources (DENR) for each of these release incidents. Copies of these forms are provided in Appendix A.

5. **Site characteristics:**
The site is an approximate 2.69-acre property that is currently being redeveloped into the Medical Office Building (MOB) at the North Carolina Research Campus. Historical uses of the property include a former car dealership, automobile repair facility, and, most recently, a stock car racing and music museum (Curb

Motorsports Museum). The site is located in a commercial and residential area of the City of Kannapolis. A site location map is presented as Figure 1, and a site map is presented as Figure 2.

The subject property is located in the Piedmont Physiographic Province of North Carolina. According to the *Geologic Map of North Carolina* dated 1985, the subject property lies within the Charlotte Belt. In the site area, underlying bedrock is composed of granitic rock. The land surface of the area is generally characterized as gently sloping, which may become moderately steep where intersected by streams.

In the Piedmont, the bedrock is overlain by a mantle of weathered rock termed saprolite or residuum. The saprolite consists of unconsolidated clay, silt, and sand with lesser amounts of rock fragments. Due to the range of parent rock types and their variable susceptibility to weathering, the saprolite ranges widely in color, texture, and thickness. Generally, the saprolite is thickest near interstream divides and thins toward streambeds. In profile, the saprolite normally grades from clayey soils near the land surface to highly weathered rock above competent bedrock.

The occurrence and movement of groundwater in the Piedmont is typically within two separate but interconnected water-bearing zones. A shallow water-bearing zone occurs within the saprolite, and a deeper water-bearing zone occurs within the underlying bedrock.

The site is located at an approximate elevation of 820 ft above mean sea level. Topography in the source area generally slopes to the west-southwest (Figure 1). Based on topography, H&H anticipates that the groundwater flow direction at the former UST basin is to the west-southwest toward an unnamed tributary of Irish Buffalo Creek located approximately 1,200 ft west-southwest of the site.

Visual observations during excavation activities and soil sample collection indicated that the soil surrounding the former UST system consists primarily of brown clayey sandy silts. Groundwater and bedrock were not encountered in the excavation.

Municipal water is provided to the site and to the areas surrounding the site. A water supply well survey was not performed. However, no obvious water supply wells were observed during area reconnaissance, and none have been reported to date.

6. Initial abatement actions, assessment activities, and corrective actions performed to date:

H&H subcontracted with EVO Corporation (EVO) of Winston-Salem, NC to remove the heating oil UST on August 10, 2012 and the waste oil UST on August 15, 2012. Based on the field evidence of impacted soils in the vicinity of the

heating oil and waste oil USTs at the time of closure, soil over-excavation activities were initiated following UST removals in accordance with DENR guidance. EVO conducted the over-excavation activities and transported the impacted soil to its treatment facility in Winston Salem, NC. The results of the soil over-excavation activities are described in Section D below.

C. Site Check Report

Not applicable.

D. UST Closure Report following UST-12 format and Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

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

   The heating oil and waste oil UST removal activities were conducted by EVO of Winston-Salem, NC on August 10 and 15, 2012, respectively. Because the initial UST was a non-regulated heating oil tank, no DENR notifications were required prior to removal of the heating oil UST. The waste oil UST was encountered during active site grading. H&H contacted Mr. Brett Morris of DENR via telephone on August 21, 2012 and notified DENR that UST-3 appeared to be a waste oil UST. However, the age of the waste oil UST is unknown and it is not listed in DENR's registered UST database. Therefore, UST-2 and UST-3 forms were not completed for this UST.

   In accordance with DENR guidance, H&H prepared a site-specific health and safety plan (HASP) for the UST removal activities. A copy of the HASP is included in Appendix B.

2. **Closure procedures:**

   Prior to removal, residual liquids (if present) were removed from the tanks using a vacuum truck. Following residual liquid removal, the tanks were purged of potentially combustible vapors using carbon dioxide (i.e., dry ice). After testing the tanks with a combustible gas indicator to check that potentially combustible vapors had dissipated, the tanks were removed from the ground.

   The tanks were removed by excavating soil along the sides of the tank until the tanks could be removed. Then, the USTs were removed from their basins with a trackhoe by connecting a chain to the tank and lifting the tank out of the ground.

   Following removal, the USTs were inspected for holes, corrosion, and pitting. Minor pitting was observed on the bottom of the heating oil and waste oil tanks.

3. **Note the amount of residual material pumped from the tank and describe the storage, sampling and disposal of the residual material and the disposal of the tank, pumps and piping:**

Prior to UST removal, EVO removed approximately 300 gallons of residual liquids/sludge from the heating oil UST on August 10, 2012. No residual liquids were found in the waste oil tank. The residual liquids from the heating oil tank were transported to EVO's facility located at 1703 Vargrave Street in Winston-Salem, NC for proper treatment/disposal. A copy of the certificate of disposal and non-hazardous materials manifest for the residual liquid/sludge is included as Appendix C.

The USTs were transported off-site to OmniSource Southeast in Winston Salem, NC for recycling. No pumps or piping were identified during UST closure activities. Copies of the tank disposal certificates for the heating oil and waste oil tank are included in Appendix D.

4. **Initial response actions and initial abatement actions:**
   Initial response and abatement actions are discussed in the following section.

5. **Soil excavation activities:**
   Approximately 54.42 tons of impacted soils were excavated from the heating oil tank basin, and approximately 40.47 tons of impacted soils were excavated from the waste oil tank basin. The excavated soil was directly loaded onto dump trucks and transported to EVO's treatment facility in Winston-Salem, NC for proper off-site disposal. A copy of the certificates of disposal, non-hazardous waste manifests, and certified weight tickets for the excavated soils are provided in Appendix E. The final dimensions of the heating oil tank excavation were approximately 14 ft long by 14 ft wide by 12 ft deep and are depicted on Figures 2 and 3. The final dimensions of the waste oil tank excavation were 14 ft long by 14 ft wide by 9 ft deep and are depicted on Figures 2 and 4. Cross-sectional views of the heating oil and waste oil tank excavations along with tank positions are also depicted on Figures 3 and 4, respectively.

   For disposal purposes, H&H collected a composite soil sample (labeled SP-1) from the excavated soil from the heating oil tank excavation and a composite soil sample (labeled SP-2) from the excavated soil from the waste oil tank excavation. The soil composite samples were analyzed for TPH-DRO and TPH-GRO by EPA Method 8015. TPH-DRO and TPH-GRO were detected at concentrations of 2,300 mg/kg and 20 mg/kg in sample SP-1, and 7,750 mg/kg and 232 mg/kg in sample SP-2. Analytical results of the composite soil samples for the heating oil and waste oil UST basins are summarized in Tables 1A and 1B, respectively. The laboratory analytical reports are provided in Appendix F.

   The former UST basins were situated in areas where grading was still taking place; therefore, backfilling of the excavation was handled by Pedulla and Clancy & Theys.

6. **Site investigation:**

On August 10, 2012, impacted soil from beneath and around the heating UST was excavated based upon elevated PID readings. Following excavation activities, H&H collected a base sample (approximately 12 ft deep) and four sidewall samples (approximately 10 ft deep) for analysis of volatile organic compounds (VOCs) by EPA Method 8260B, semi-VOCs (SVOCs) by EPA Method 8270D, and extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH) by the Massachusetts Department of Environmental Protection (MADEP) Methods. No VOCs, SVOCs, EPH, or VPH were detected above the laboratory reporting limits in the post-excavation sidewall or base samples.

On August 15, 2012, impacted soil from beneath and around the waste oil UST was excavated based upon visual observations and elevated PID readings. Following excavation activities, H&H collected a base sample (approximately 9 ft deep) and four sidewall samples (approximately 7 ft deep) for analysis of VOCs by EPA Method 8260B, SVOCs by EPA Method 8270D, EPH and VPH by the MADEP Methods, and total lead and chromium by EPA Methods 6010/3050. With the exception of low concentrations of total lead, no target compounds were detected above the laboratory reporting limits in the post-excavation sidewall or base samples. Low concentrations of total lead up to 10.4 mg/kg were detected in each of the post-excavation sidewall and base samples. However, these concentrations are likely naturally occurring and are below the Soil to Groundwater, Residential, and Industrial/Commercial Maximum Soil Contaminant Concentrations of 270 mg/kg, 400 mg/kg, and 400 mg/kg for lead.

The soil samples were analyzed by North Carolina certified laboratories. Chain-of-custody records were completed for samples collected and included sample description, date collected, time collected, matrix, sample container information, and analyses required. The chain-of-custodies were signed by H&H prior to placement in an iced cooler for hand delivery to the laboratory. Prior to delivery, the cooler was kept in a secure location (i.e. a locked truck) to eliminate any potential disturbance of the contents.

The heating oil tank excavation area and confirmation soil sample locations are depicted on Figure 3, and the waste oil tank excavation area and confirmation soil sample locations are depicted on Figure 4. Post-Excavation confirmation soil sample results for the heating oil and waste oil tank excavations are presented in Tables 2A and 2B, respectively. Laboratory analytical sheets are provided in Appendix F.

E. Free Product Investigation and Recovery Report

No free product has been detected at this site.

F. Groundwater and Surface Water Investigation

No groundwater or surface water samples were collected during the UST closure activities.

G. Initial Response and Abatement Activities

See Section B.

H. Excavation of Contaminated Soil

See Section D.

I. Conclusions and Recommendations:

On August 10, 2012, a 500-gallon heating oil UST was removed from the site. Approximately 54.42 tons of impacted soil was subsequently removed for off-site treatment/disposal. No impacts were detected in the post-excavation confirmation soil samples for the heating oil UST basin.

On August 15, 2012, a 1,000-gallon waste oil UST was removed from the site. Approximately 40.47 tons of impacted soil was subsequently removed for off-site treatment/disposal. No impacts were detected in the post-excavation confirmation soil samples for the waste oil UST basin.

Based upon the results of the post-excavation soil sampling, H&H requests that DENR issue a No Further Action determination for the heating oil and waste oil UST release incidents.

Tables

Table 1A	Summary of UST Closure and Stockpile Soil Sampling Results (Heating Oil UST)
Table 1B	Summary of UST Closure and Stockpile Soil Sampling Results (Waste Oil UST)
Table 2A	Summary of Post-Excavation Soil Sampling Results (Heating Oil UST)
Table 2B	Summary of Post-Excavation Soil Sampling Results (Waste Oil UST)

Figures

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Soil Sample Locations and Cross-Section (Heating Oil UST)
Figure 4	Soil Sample Locations and Cross-Section (Waste Oil UST)

Appendices

Appendix A	24-Hour Release and UST Leak Reporting Forms (UST-61 Forms)
Appendix B	Site-Specific Health and Safety Plan (HASP)
Appendix C	Certificate of Disposal and Non-Hazardous Materials Manifest (Residual Liquid/Sludge) (Heating Oil UST Only)
Appendix D	Tank Disposal Certificates
Appendix E	Certificate of Disposal, Non-Hazardous Waste Manifests, and Weight Tickets (Impacted Soil) (Heating Oil UST and Waste Oil UST)
Appendix F	Laboratory Analytical Reports

Table 1A (Page 1 of 1)
UST Closure and Composite Soil Sample Analytical Results (Heating Oil UST)
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

Analytical Method			8015C	8015C
Sample ID	**Date Collected**	**Sample Depth (ft)**	TPH-GRO	TPH-DRO
T1-1 (4)	8/10/2012	4	**96**	**8,400**
T1-2 (4)	8/10/2012	4	<5.7	**180**
SP-1	8/10/2012	NA	**20**	**2,300**
Action Level (mg/kg)			10	10

Notes:
Bold values exceed the DENR Action Level
Values reported in miligrams per kilogram (mg/kg)
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
NA = Not Applicable

Table 1B (Page 1 of 1)
UST Closure and Composite Soil Sample Analytical Results (Waste Oil UST)
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

Analytical Method			8015M	8015M
Sample ID	**Date Collected**	**Sample Depth (ft)**	TPH-GRO	TPH-DRO
T2-1 (2)	8/15/2012	2	**125**	**5,130**
T2-2 (2)	8/15/2012	2	<6.6	**21.7**
SP-2	8/15/2012	NA	**232**	**7,750**
Action Level (mg/kg)			10	10

Notes:
Bold values exceed the DENR Action Level
Values reported in miligrams per kilogram (mg/kg)
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
NA = Not Applicable

Table 2A (Page 1 of 1)
Post-Excavation Soil Sample Analytical Results (Heating Oil UST)
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

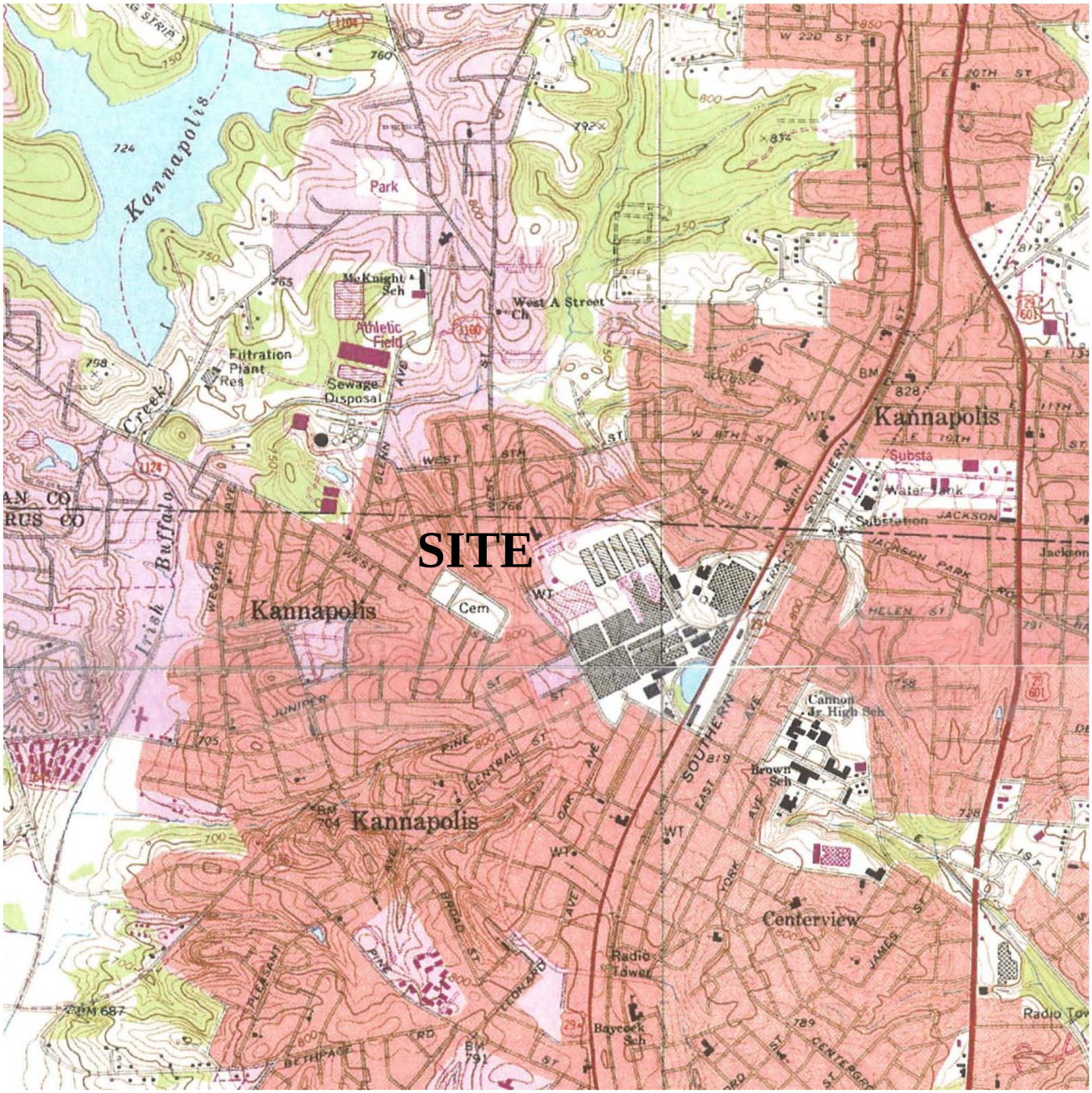
Analytical Method			MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	8260B	8270D
Sample ID	**Date Collected**	**Sample Depth (ft)**	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics	Volatile Organic Compounds	Semi-Volatile Organic Compounds
SW-1 (10)	08/10/12	10	<16	<16	<12	ND	<12	<16	<12	ND	All BRL	All BRL
SW-2 (10)	08/10/12	10	<17	<17	<12	ND	<12	<17	<12	ND	All BRL	All BRL
SW-3 (10)	08/10/12	10	<16	<16	<12	ND	<12	<16	<12	ND	All BRL	All BRL
SW-4 (10)	08/10/12	10	<17	<17	<12	ND	<12	<17	<12	ND	All BRL	All BRL
B-1 (12)	08/10/12	12	<17	<17	<12	ND	<12	<17	<12	ND	All BRL	All BRL
Soil to Ground Water MSCC (mg/kg)			68	NS	NS	540	Immobile	NS	NS	31	NA	NA
Residential MSCC (mg/kg)			939	NS	NS	1,500	31,000	NS	NS	469	NA	NA
Industrial/Commercial MSCC (mg/kg)			24,528	NS	NS	40,000	810,000	NS	NS	12,264	NA	NA

Notes:
Apart from VPH and EPH, only those compounds detected are shown
Values reported in milligrams per kilogram (mg/kg)
MADEP = Massachusetts Department of Environmental Protection;
VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons;
NS = No Specified; ND = Not Detected; BRL = Below Reporting Limit
MSCC = Maximum Soil Contaminant Concentration

Table 2B (Page 1 of 1)
Post-Excavation Soil Sample Analytical Results (Waste Oil UST)
Proposed Medical Office Building
Kannapolis, North Carolina
H&H Job No. PPA-021

Analytical Method			MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	MADEP	8260B	8270D	6010/3050	6010/3050
Sample ID	**Date Collected**	**Sample Depth (ft)**	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics	Volatile Organic Compounds	Semi-Volatile Organic Compounds	Total, Lead	Total, Chromium
SW-1 (7)	08/15/12	7	<3.2	<3.2	<11.5	ND	<11.5	<3.2	<11.5	ND	All BRL	All BRL	10.4	<0.57
SW-2 (7)	08/15/12	7	<3.2	<3.2	<11.1	ND	<11.1	<3.2	<11.1	ND	All BRL	All BRL	4.3	<0.49
SW-3 (7)	08/15/12	7	<3.5	<3.5	<12.0	ND	<12.0	<3.5	<12.0	ND	All BRL	All BRL	10	<0.59
SW-4 (7)	08/15/12	7	<3.3	<3.3	<11.6	ND	<11.6	<3.3	<11.6	ND	All BRL	All BRL	3.9	<0.51
B-1 (9)	08/15/12	9	<3.1	<3.1	<11.2	ND	<11.2	<3.1	<11.2	ND	All BRL	All BRL	5.5	<0.56
Soil to Ground Water MSCC (mg/kg)			68	NS	NS	540	Immobile	NS	NS	31	NA	NA	270	5.4
Residential MSCC (mg/kg)			939	NS	NS	1,500	31,000	NS	NS	469	NA	NA	400	47
Industrial/Commercial MSCC (mg/kg)			24,528	NS	NS	40,000	810,000	NS	NS	12,264	NA	NA	400	1,226

Notes:
Apart from VPH and EPH and total lead and chromium, only those compounds detected are shown
Values reported in milligrams per kilogram (mg/kg)
MADEP = Massachusetts Department of Environmental Protection;
VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons;
NS = No Specified; ND = Not Detected; BRL = Below Reporting Limit
MSCC = Maximum Soil Contaminant Concentration



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0 2000 4000

APPROXIMATE SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

ENOCHVILLE, NC. 1993
KANNAPOLIS, NC. 1993

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE **SITE LOCATION MAP**

PROJECT FORMER CURB MOTORSPORTS
(PROPOSED MEDICAL OFFICE BUILDING)
KANNAPOLIS, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

DATE:	8-10-12	REVISION NO:	0
JOB NO:	PPA-021	FIGURE:	1

LEGEND

EXTENT OF IMPACTED SOIL EXCAVATION

SITE PROPERTY BOUNDARY

NOTES:

1. PETROLUEM-IMPACTED SOIL EXCAVATION FOR THE SUBJECT HEATING OIL UST (UST-2) OCCURED ON AUGUST 10, 2012.
2. PETROLEUM-IMPACTED SOIL EXCAVATION FOR SUBJECT WASTE OIL UST (UST-3) OCCURED ON AUGUST 15, 2012.
3. AERIAL IMAGERY PROVIDED BY GOOGLE EARTH, DATED APRIL 10, 2010.

N

APPROXIMATE
0 180 360
SCALE IN FEET

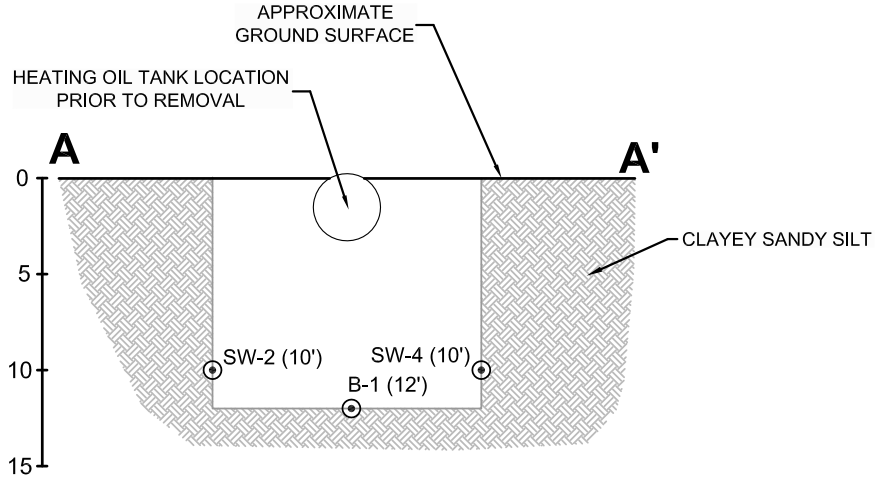
TITLE
SITE MAP

PROJECT
FORMER CURB MOTORSPORTS
(PROPOSED MEDICAL OFFICE BUILDING)
KANNAPOLIS, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

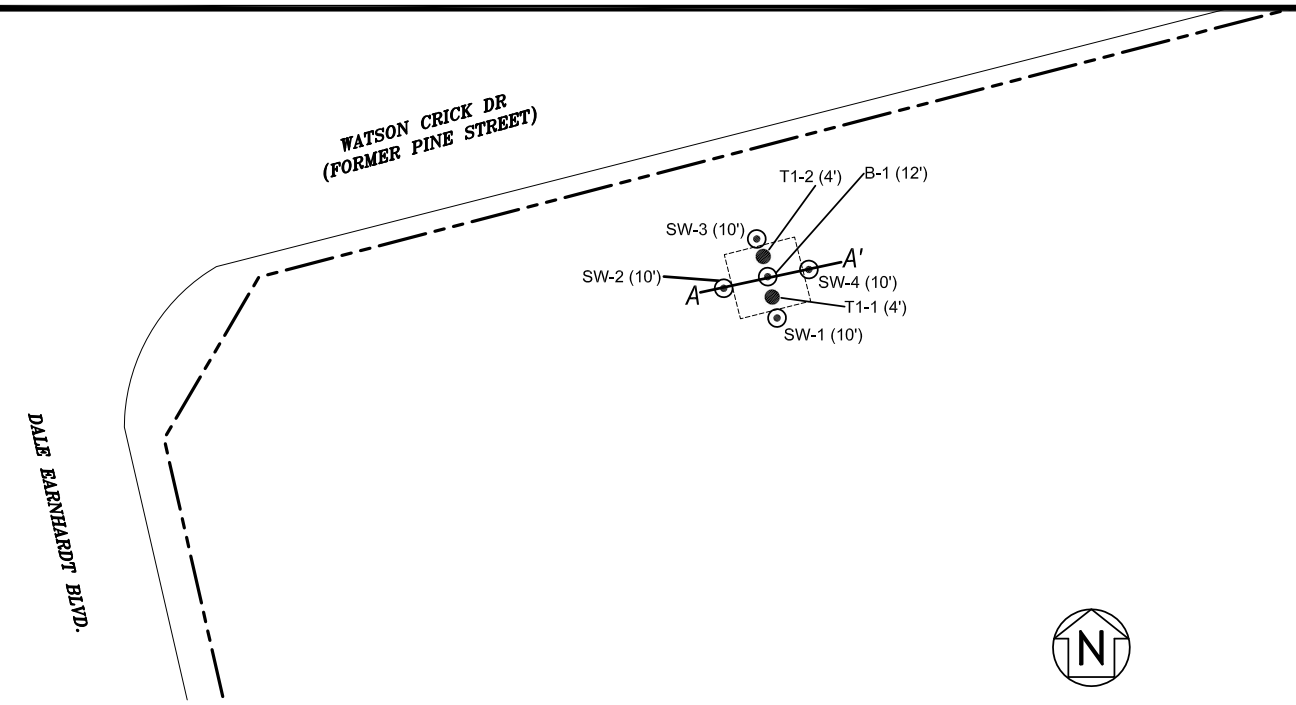
DATE: 11–8–12	REVISION NO. 0
JOB NO. PPA–021	FIGURE NO. 2

S:\AAA-Master Projects\Parker Poe Adams (PPA)\PPA-021 Kannapolis\MOB\2012 UST Removals\Heating Oil UST\Figures\Figure 2.dwg, FIGURE 2, 11/12/2012 5:07:59 PM, nfoster



APPROXIMATE
0 10 20
SCALE IN FEET

CROSS SECTION A-A'



N

APPROXIMATE
0 40 80
SCALE IN FEET

LEGEND

- SITE PROPERTY BOUNDARY
- EXTENT OF EXCAVATION
- UST CLOSURE SAMPLE
- POST-EXCAVATION CONFIRMATION SOIL SAMPLE

NOTES:
SAMPLES COLLECTED BY H&H ON AUGUST 10, 2012

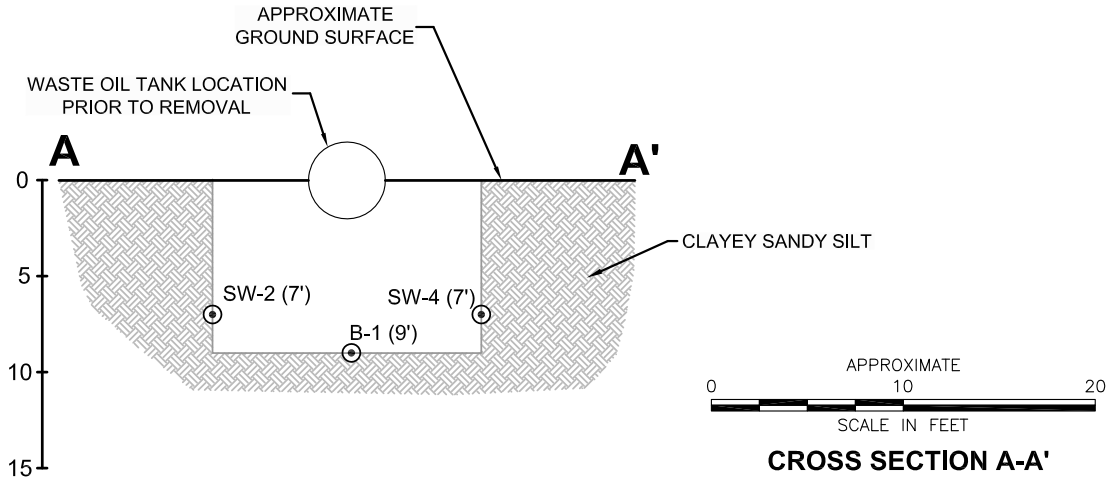
TITLE SOIL SAMPLE LOCATIONS AND CROSS-SECTION (HEATING OIL UST) (UST-2)

PROJECT FORMER CURB MOTORSPORTS (PROPOSED MEDICAL OFFICE BUILDING) KANNAPOLIS, NORTH CAROLINA

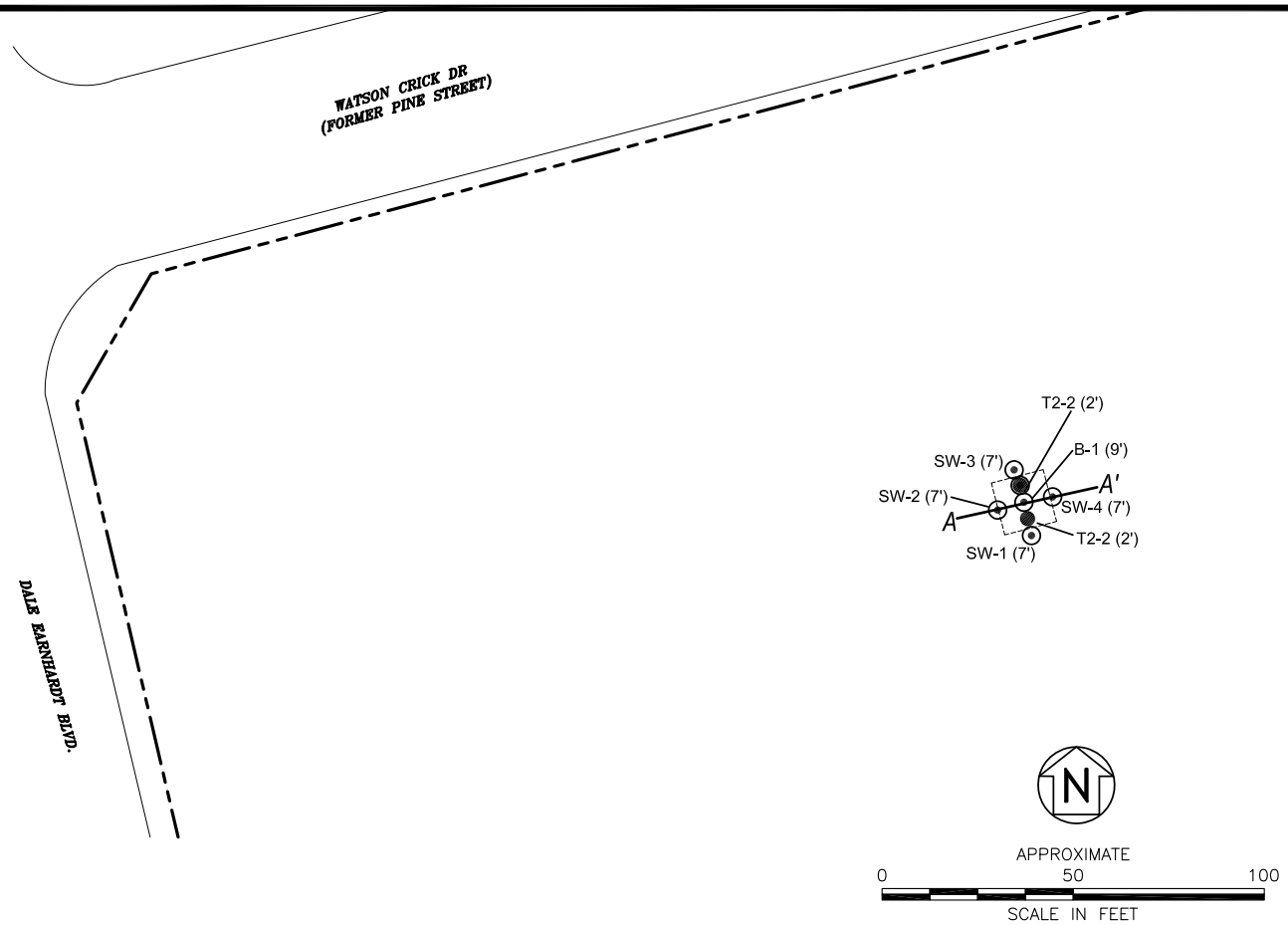
hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11–8–12	REVISION NO. 0
JOB NO. PPA–021	FIGURE NO. 3

S:\AAA-Master Projects\Parker Poe Adams (PPA)\PPA-021 Kannapolis\MOB\2012 UST Removals\Heating Oil UST\Figures\fIG 3.dwg, FIGURE 3, 11/14/2012 5:01:17 PM, nfoster



CROSS SECTION A-A'



LEGEND

- SITE PROPERTY BOUNDARY
- EXTENT OF EXCAVATION
- UST CLOSURE SAMPLE
- POST-EXCAVATION CONFIRMATION SOIL SAMPLE

NOTES:
SAMPLES COLLECTED BY H&H ON AUGUST 15, 2012

TITLE
SOIL SAMPLE LOCATIONS AND CROSS-SECTION
(WASTE OIL UST)
(UST-3)

PROJECT
FORMER CURB MOTORSPORTS
(PROPOSED MEDICAL OFFICE BUILDING)
KANNAPOLIS, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 11–8–12	REVISION NO. 0
JOB NO. PPA–021	FIGURE NO. 4

S:\AAA-Master Projects\Parker Poe Adams (PPA)\PPA-021 Kannapolis\MOB\2012 UST Removals\Waste Oil UST\Figures\fIG 3.dwg, FIGURE 3, 11/14/2012 5:06:17 PM, nfoster

Appendix A

24-Hour Release and UST Leak Reporting Forms (UST-61 Forms)

Heating Oil UST

UST-61 — 24-Hour Release and UST Leak Reporting Form.

For Releases in NC

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U)_____
Received On _____ Received By _____
Reported by (*circle one*): Phone, Fax or Report
Region _____

Suspected Contamination? (Y/N) Y
Confirmed GW Contamination? (Y/N) N
Confirmed Soil Contamination ?(Y/N) Y
Samples Taken?(Y/N) Y
Free Product? (Y/N) N If Yes, State Greatest Thickness NA

Facility ID Number Not Applicable
Date Leak Discovered 8-10-2012
Comm/Non-Commercial? Non-Comm
Reg/Non-regulated? Non-regulated

INCIDENT DESCRIPTION

Incident Name: Former Curb Motorsports

Address: 201 Dale Earnhardt Boulevard | County: Cabarrus

City/Town: Kannapolis | Zip Code: 28081 | Regional Office (*circle one*): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): 35.29'56.31"N Longitude (decimal degrees) : 80.37.46.84"W

Obtained by:
- ☐ GPS
- ☒ Topographic map
- ☐ GIS Address matching
- ☐ Other
- ☐ Unknown

Describe location:

Briefly describe suspected or confirmed release: *(including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)*

A suspected release was discovered during removal of a former heating oil tank on August 10, 2012. Initial abatement soil removal activities were conducted on August 10, 2012 to remove the impacted soil and laboratory analytical results are pending. No free product was observed and there are no known impacts to receptors. The date and volume of the release are unknown.

HOW RELEASE WAS DISCOVERED (Release Code)

(Check one)

- ☐ Release Detection Equipment or Methods
- ☒ During UST Closure/Removal
- ☐ Property Transfer
- ☐ Visual/Odor
- ☐ Water in Tank
- ☐ Water Supply Well Contamination
- ☐ Groundwater Contamination
- ☐ Surface Water Contamination
- ☐ Other (specify) _____

SOURCE OF CONTAMINATION

Source of Release *(Check one to indicate primary source)*
- ☐ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other
- ☒ Unknown

Definitions presented on reverse

Cause of Release *(Check one to indicate primary cause)*
- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Install Problem
- ☐ Other
- ☒ Unknown

Definitions presented on reverse

Type of Release *(Check one)*
- ☒ Petroleum
- ☐ Non-Petroleum
- ☐ Both

Location *(Check one)*
- ☐ Facility
- ☒ Residence
- ☐ Other

Product Type Released *(Check one to indicate primary product type released)*
- ☐ Gasoline/ Diesel/ Kerosene
- ☒ Heating Oil
- ☐ Other Petroleum Products
- ☐ Metals
- ☐ Other Inorganics
- ☐ Other Organics
- ☐ Diesel/Veg. Oil Blend
- ☐ Vegetable Oil 100%
- ☐ E10 – E20
- ☐ E21 – E84
- ☐ E85 – E99
- ☐ Ethanol 100%
- ☐ E01 – E09

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

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

IMPACT ON DRINKING WATER SUPPLIES

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

Number of Water Supply Wells Affected None Known

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

1.
2.
3.

UST SYSTEM OWNER

UST Owner/Company			
Unknown			
Point of Contact		Address	
City	State	Zip Code	Telephone Number

UST SYSTEM OPERATOR

UST Operator/Company		Address	
Unknown			
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner		Address	
Castle & Cooke NCRC Properties 3, LLC		210 Oak Avenue	
City	State	Zip Code	Telephone Number
Kannapolis	NC	28081	(704) 938-5400

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

See Attached Figure 2.

Person Reporting Incident S. Cottrill	Company Hart & Hickman, PC	Telephone Number (704) 586-0007
Title Project Manager (Consultant)	Address 2923 S. Tryon St., Ste. 100, Charlotte, NC 28203	Date August 10, 2012

Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)

Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

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

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)

Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined

Waste Oil UST

UST-61 — 24-Hour Release and UST Leak Reporting Form.

For Releases in NC

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U)_____
Received On _____ Received By _____
Reported by (*circle one*): Phone, Fax or Report
Region _____

Suspected Contamination? (Y/N) Y
Confirmed GW Contamination? (Y/N) N
Confirmed Soil Contamination ?(Y/N) Y
Samples Taken?(Y/N) Y
Free Product? (Y/N) N If Yes, State Greatest Thickness NA

Facility ID Number Not Applicable
Date Leak Discovered 8-15-2012
Comm/Non-Commercial? Non-Comm
Reg/Non-regulated? Non-regulated

INCIDENT DESCRIPTION

Incident Name: Former Curb Motorsports (Proposed Medical Office Building)

Address: 201 Dale Earnhardt Boulevard | County: Cabarrus

City/Town: Kannapolis | Zip Code: 28081 | Regional Office (*circle one*): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): 35.29'56.01"N Longitude (decimal degrees) : 80.37'44.97"W

Obtained by:
- ☐ GPS
- ☐ Topographic map
- ☐ GIS Address matching
- ☒ Other Google Earth
- ☐ Unknown

Describe location:

Briefly describe suspected or confirmed release: *(including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)*

A suspected release was discovered during removal of a former waste oil tank on August 15, 2012. Initial abatement soil removal activities were conducted on August 15, 2012 to remove the impacted soil and final laboratory analytical results are pending. Preliminary soil analytical results received on August 22, 2012 indicate concentrations of TPH-GRO up to 232 mg/kg. No free product or groundwater was observed during the UST removal or IAA activities, and there are no known impacts to receptors. The date and volume of the release are unknown.

HOW RELEASE WAS DISCOVERED (Release Code)

(Check one)

- ☐ Release Detection Equipment or Methods
- ☒ During UST Closure/Removal
- ☐ Property Transfer
- ☐ Visual/Odor
- ☐ Water in Tank
- ☐ Water Supply Well Contamination
- ☐ Groundwater Contamination
- ☐ Surface Water Contamination
- ☐ Other (specify) _____

SOURCE OF CONTAMINATION

Source of Release *(Check one to indicate primary source)*
- ☐ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other
- ☒ Unknown

Definitions presented on reverse

Cause of Release *(Check one to indicate primary cause)*
- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Install Problem
- ☐ Other
- ☒ Unknown

Definitions presented on reverse

Type of Release *(Check one)*
- ☒ Petroleum
- ☐ Non-Petroleum
- ☐ Both

Location *(Check one)*
- ☒ Facility
- ☐ Residence
- ☐ Other

Product Type Released *(Check one to indicate primary product type released)*
- ☐ Gasoline/ Diesel/ Kerosene
- ☐ Heating Oil
- ☒ Other Petroleum Products (waste oil)
- ☐ Metals
- ☐ Other Inorganics
- ☐ Other Organics
- ☐ Diesel/Veg. Oil Blend
- ☐ Vegetable Oil 100%
- ☐ E10 – E20
- ☐ E21 – E84
- ☐ E85 – E99
- ☐ Ethanol 100%
- ☐ E01 – E09

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

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

IMPACT ON DRINKING WATER SUPPLIES

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

Number of Water Supply Wells Affected None Known

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

1.
2.
3.

UST SYSTEM OWNER

UST Owner/Company			
Unknown			
Point of Contact		Address	
City	State	Zip Code	Telephone Number

UST SYSTEM OPERATOR

UST Operator/Company		Address	
Unknown			
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner		Address	
Castle & Cooke NCRC Properties 3, LLC		210 Oak Avenue	
City	State	Zip Code	Telephone Number
Kannapolis	NC	28081	(704) 938-5400

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

See Attached Figure 2.

Person Reporting Incident S. Cottrill	Company Hart & Hickman, PC	Telephone Number (704) 586-0007
Title Project Manager (Consultant)	Address 2923 S. Tryon St., Ste. 100, Charlotte, NC 28203	Date August 22, 2012

Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)

Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

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

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)

Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined

Appendix B

Site-Specific Health and Safety Plan (HASP)

HEALTH AND SAFETY PLAN
North Carolina Research Campus – Medical Office Building
Charlotte, North Carolina
H&H Job No. PPA-021

During grading activities on August 8, 2012, construction/grading contractors discovered a petroleum underground storage tank (UST) in the north central portion of the proposed Medical Office Building site. The site was formerly occupied by Curb Motorsports (218 Chestnut Avenue) which operated a racing and music museum on the property. Previous historic site operations included a former used car dealership and a former petroleum retail store (i.e., gas station). Based on H&H's August 9, 2012 site visit, the UST appears to be a non-regulated 500-gallon heating oil UST and appears to be associated with previous historic operations at the site. The top surface of the tank has been exposed by grading activities. The tank is full of water and residual liquids with an olfactory resemblance of kerosene/heating oil. No other information is currently available for the tank.

The construction/grading contractor is currently working on-site with heavy equipment. Current activities consist of grading and construction of erosion control features.

The majority of the site activities will be conducted by EVO Corporation (EVO) of Winston-Salem, NC. EVO's anticipated activities will include residual fluid removal (via a vacuum truck), inerting the tank with carbon dioxide (i.e., dry ice), metering the tank with a lower explosive limit (LEL) meter, UST removal, loading, and off-site transport, and impacted soil excavation, loading, and off-site transport (if necessary). The scope of work (SOW) for activities to be performed at the site by H&H personnel includes the following:

- H&H will provide oversight during UST removal and impacted soil excavation activities.
- H&H will monitor the breathing zone near the UST and excavation to ensure safe working conditions. Breathing zone monitoring will be based on the constituent with the TWA for benzene. See below for additional monitoring details.
- During UST removal activities, H&H personnel will field screen the excavated soil with a photoionization detector (PID) and visually inspect it for the presence of staining. If impacted soil is encountered, H&H will segregate impacted soil from clean soil, collect the UST closure soil samples, and direct over-excavation activities. If impacted soil is encountered, it is anticipated that the impacted soil will be direct loaded onto dump trucks and transported to the EVO's treatment facility in Winston-Salem, NC.
- Following impacted soil excavation, H&H will collect post-excavation confirmation samples from the base and four sidewalls of the excavation.

Potential Hazards (List known or suspected hazards present on-site and preventative measures).

(1) Physical Hazards (i.e., fire, explosion, traffic, slips, trips, and falls, etc.).

- Being struck or direct contact with heavy equipment and/or dump trucks.
- Slip, trip, & fall hazards associated with equipment, landscape, and/or open excavation.
- Contact with subgrade utility lines and/or contact with overhead power lines.
- Lifting hazards and pinch points.

(2) Chemical Hazards (i.e., chemicals or products stored on-site).

TPH and petroleum-related volatile organic compounds (VOCs), semi-VOCs, extractable petroleum hydrocarbons (EPH), and volatile organic hydrocarbons (VPH) may be present in the soil in the vicinity of the tank.

(3) Biological Hazards (i.e., toxic insects, poisonous plants, and poisonous snakes).

- Poison ivy and poison oak.
- Insects such as fire ants, bees, and/or wasps could be present

(4) Other Hazards

- Slippery conditions associated with rain, and potential for lightening.
- Heat stress

Training

(1) Minimum Training Required (Review site specific information prior to entering the site).

- 40-hour OSHA HAZWOPER Training
- Medical Monitoring Program Participant

(2) Specialized Training or Required Permits (i.e., site specific, or special permits may be necessary).

- "Competent Person" training for excavation & trenching preferred but not required for H&H personnel. However, at least one "competent person" provided by remediation/UST removal contractor shall be on-site during excavation activities.
- No special permits required if disturbance area is less than one (1) acre in size.

Emergency Response

(1) On-site emergency contact person and telephone number:

- H&H Site Safety Officer – John Lopez (704) -618-0031 (mobile)
- Client Contact – Tom Sanctis, Castle & Cooke, NC LLC, VP of Commercial Construction – (704)273-1128 (direct); (704) 202-8672 (mobile)
- Client's Construction Manager – Steve Tabor (Clancy & Theys) – (704) 357-6602 (mobile)

(2) Other emergency contacts as appropriate: (i.e., fire, ambulance, 911, etc.)

- Ambulance, Fire, & Police – phone # 911
- H&H Health & Safety Officer – Shannon Cottrill (704) 887-4605 (office); (704) 577-8810 (mobile)

Hospital - Carolinas Medical Center – Northeast **(See Attached Map)**
(704) 403-3000 phone
920 Church Street North
Concord, NC 28025

In the event of an emergency situation on the site, on-site personnel are to immediately notify the appropriate emergency responder (i.e., fire, rescue, police, etc.), and take any corrective actions or emergency procedures that can be safely performed (i.e., first aid, CPR, etc.) When conditions permit, on-site personnel must notify the H&H Project Manager and Health & Safety Officer that an incident has occurred. On-site personnel should review and be familiar with the phone number and location of the nearest hospital (listed above).

Personal Protective Equipment (PPE)

(1) PPE Required: (examples: hard hat, safety glasses with side shields, steel toe boots, tyvek coveralls, respirator, rubber boots, gloves, etc.)

The following PPE will be required during the performance of site activities:

Safety glasses	At all times during the performance of site work, regardless of the task
Safety shoes/boots	At all times during the performance of site work, regardless of the task
Traffic safety vest	At any time where work is performed in areas of vehicular traffic and heavy equipment, or within 25 ft of such an area
Hearing Protection	At any time where noise levels are above natural ambient levels, at any time when working within 25 ft of operational heavy equipment (i.e., excavators), and at any time when utilizing portable equipment which creates noise levels above natural ambient levels (i.e., drills, saws, etc)
Leather work gloves	At any time the use of hand protection is warranted, including but not limited to, operations involving the use of hand tools
Nitrile gloves	At any time environmental samples are to be collected or contaminated media is being handled
Hard hat	At any time when working within 25ft of operational heavy equipment and when working within a space with limited overhead clearance and/or overhead obstructions

During excavation and material handling operations, a photoionization detector (PID) shall be utilized to monitor potential exposure to volatile organic vapors. Monitoring of potential volatile organic vapors will be conducted within the breathing zone (i.e., 5 to 6 ft above ground surface), and will be conducted periodically during each day. Data obtained through the performance of this monitoring shall be recorded in the field book, noting the date, time, location and measurement obtained. More frequent vapor monitoring should be conducted as conditions warrant (i.e., recognition of offensive odors).

As a PID detects numerous volatile organic vapors and is not specific to a particular compound, the action level for organic vapors as monitored with the PID at the site is established at a level of 0.5 parts per million (ppm), above background levels. This level is the recommended ACGIH time weighted average (TWA) limit for benzene (ACGIH, 2009 TVLs and BELs, 2009). If this level is observed or exceeded within the breathing zone for more than 1 minute, operations are to be suspended and personnel will move up wind of the work area until levels dissipate. If volatile organic vapor levels do not dissipate in the work area, contact the Project Manager and Health & Safety Officer, ventilation measures may be necessary in the work area and/or the required PPE may be modified to include donning of an appropriate respirator.

Decontamination (Evaluate the need for decontamination, describe procedures, etc.)

Sampling devices (i.e., stainless steel hand augers and buckets) shall be decontaminated in accordance with Section 9.1, *Field Equipment Decontamination Procedure*, of the H&H Field Procedures Guide dated February 2010. All other sampling equipment shall be disposable (i.e., nitrile gloves).

Site Control (Evaluate the need for site control to protect persons from exposure to hazardous conditions; i.e., work permits, cones, barricade tape, etc.).

H&H personnel shall take necessary measures to maintain site control and limit exposure of persons to hazardous conditions or hazardous materials. The excavation area will be secured if the excavation pit has to be left open overnight. However, securing the excavation will be the responsibility of the grading contractor performing the excavation and Balfour Beatty, the on-site construction contractor.

As needed, H&H shall establish work areas to be demarked with traffic cones, barricades, caution tape, or other appropriate measures. In general, a minimum perimeter of 25 ft should be established around the work area by one or more of the control measures listed above. Where possible, operations will not be conducted in a manner which increases personnel or subcontractor exposure to traffic or other hazards.

No unauthorized personnel are to be allowed in the work areas during operations.

Safety Briefings

Safety briefings will be held on each day during which site work is performed. A minimum of one daily safety briefing will be held on the site by all personnel involved in site operations. Additional safety briefings will be conducted as site conditions or hazards change, when returning to the site following breaks in operation such as lunch or weekends, or at other appropriate times to be determined by on-site personnel or the Project Manager. Records of these safety meetings will be noted on the safety briefing log sheets (provided at the end of this document) and in the field book, and will include the date and time of the briefing, names and affiliations of attendees, and any pertinent subjects of discussion.

Additional Information

Reviewed By:

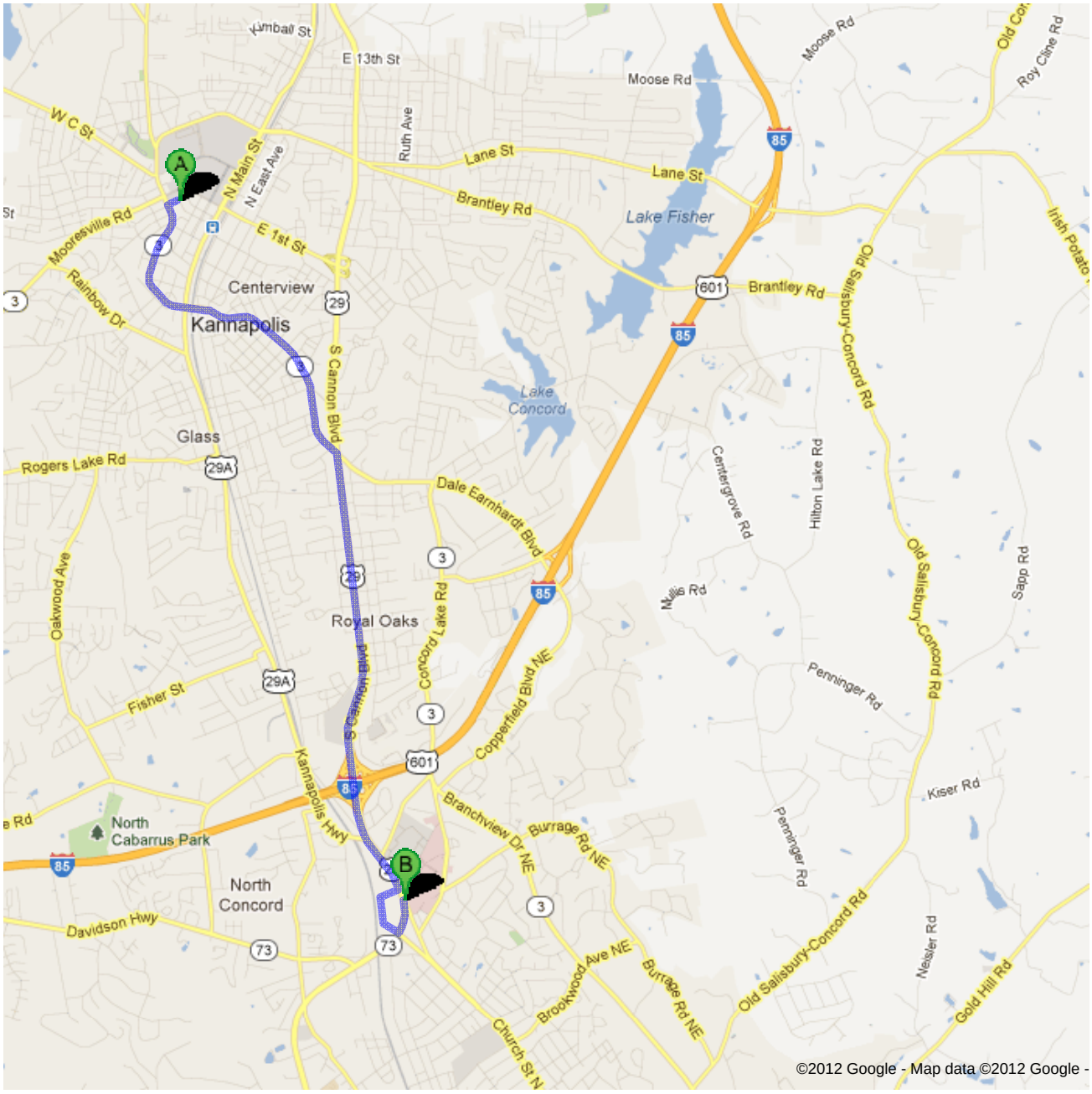
Shannon Cottrill
Project Manager/Health & Safety Officer

Safety Briefing Log

Name	Signature	Affiliation/Company	Date

Hospital Directions and Map

Directions to 920 Church St N, Concord, NC 28025
5.8 mi – about **12 mins**



218 Chestnut Ave, Kannapolis, NC 28081

	1. Head **southwest** on **Chestnut Ave** toward **Dale Earnhardt Blvd**	go 341 ft total 341 ft
	2. Take the 1st left onto **N Carolina 3 S/Dale Earnhardt Blvd** About 6 mins	go 2.3 mi total 2.3 mi
	3. Slight right onto **S Cannon Blvd** About 3 mins	go 2.1 mi total 4.4 mi
	4. Continue onto **Concord Pkwy N** About 1 min	go 0.7 mi total 5.1 mi
	5. Turn right onto **Beechwood Ave NW**	go 0.1 mi total 5.3 mi
	6. Take the 1st left onto **Davidson Dr NW** About 53 secs	go 0.3 mi total 5.5 mi
	7. Take the 1st left onto **Concord Pkwy N** About 1 min	go 0.2 mi total 5.8 mi

920 Church St N, Concord, NC 28025

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2012 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

Appendix C

Certificate of Disposal and Non-Hazardous Materials Manifest (Residual Liquid/Sludge) (Heating Oil UST Only)

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation. does hereby certify that 300 gallons of non-hazardous contaminated sludge received on 08/10/2012 from:

Generator: Castle & Cooke NC RC Properties 3, LLC

Originating at: 201 Dale Earnhardt Boulevard
Kannapolis, NC

EC Waste ID #: 081232

has been disposed of by Evo Corporation. in a manner approved by the North Carolina Department of Environment and Natural Resources.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75048

GENERATOR INFORMATION

Generator: Castle & Cooke NC RCI Properties, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: ~~Water~~ Sludge
Empty Weight (lbs): Contaminant: #2 Fuel Oil
Net Weight (lbs):

Quantity 300 Tons Drums Pails Sacs Yards Other: GAL

TRANSPORTER INFORMATION

Transporter: SWS Environmental Phone: 336-553-1853
Truck #: 5074 Contact: Matthew Rife

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 8/10/12

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Lauren Fleck Date: 8/10/12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

Appendix D

Tank Disposal Certificates

RECEIVED
SEP 17 2012
BY:

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: Castle & Cooke NC R Properties 3, LLC

Site Address: 201 Dale Earnhardt Boulevard
Kannapolis, NC

Tank Description:

Tank Number	Size of Tank	Contents
1	500 Gallons	#2 Fuel Oil

Transporter: Evo Corporation

EC Project #: 081232

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.

Signature

Anthony H. Disher
President
Evo Corporation

RECEIVED
SEP 17 2012
BY:

evo
ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: Castle & Cooke NC R Properties 3, LLC

Site Address: 201 Dale Earnhardt Boulevard
Kannapolis, NC

Tank Description:

Tank Number	Size of Tank	Contents
1	1,000 Gallons	Waste Oil

Transporter: Evo Corporation

EC Project #: 081232

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.

Signature

Anthony H. Disher
President
Evo Corporation

Appendix E

Certificate of Disposal, Non-Hazardous Waste Manifests, and Weight Tickets (Impacted Soil) (Heating Oil UST and Waste Oil UST)

Heating Oil UST

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

RECEIVED
SEP - 4 2012

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 54.42 tons of non-hazardous contaminated material received on 08/10/2012 from:

Generator: Castle & Cooke NC RC Properties 3, LLC

Originating at: 201 Dale Earnhardt Boulevard
Kannapolis, NC

EC Waste ID #: 081232

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

32

Load # Manifest No. 75055

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 64180 Material: Soil
Empty Weight (lbs): 32720 Contaminant: #2 Fuel Oil
Net Weight (lbs): 31460

Quantity 15.73 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 202/316 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 8-10-12

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 08-10-2012

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75051

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 49,340 Material: Soil
Empty Weight (lbs): 26,040 Contaminant: #2 Fuel Oil
Net Weight (lbs): 23,300

Quantity 11.65 Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 01 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 8-10-2012

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 8/10/12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75053

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 44,760 Material: Soil
Empty Weight (lbs): 26,040 Contaminant: #2 Fuel Oil
Net Weight (lbs): 18,720

Quantity 9.36 Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 101 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 8-10-2012

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 8/10/12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75054

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 68080 Material: Soil
Empty Weight (lbs): 32720 Contaminant: #2 Fuel Oil
Net Weight (lbs): 35360

Quantity 17.68 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 202/316 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Mitch Queen Date: 8-10-12

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

* Facility Signature: Tony Disher Date: 08-10-2012

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-10-2012

SCALE: 1555
LOCATION: 95 BILLS TRUCK STOP I-85 EXIT 86 LINWOOD NC

41853936
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	14780	lb
DRIVE AXLE	29980	lb
TRAILER AXLE	00	lb
*GROSS WEIGHT	44760	lb

Will DH 081232 Kannapolis N.C.

IMPRINT SEAL HERE (IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: ~~FREIGHT ALL KINDS~~

COMPANY: EVO TRACTOR #: 101 TRAILER #: 0

FEE: $1.00 WEIGHMASTER OR WEIGHER SIGNATURE: GARY HILLIARD FULL WEIGH TICKET # (IF REWEIGH): 41853926

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

WEIGH NUMBER 3926

CUSTOMER COPY

© CAT Scale® Reg 3041 04/12

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-10-2012

SCALE: 1537
LOCATION: 695 WILCO TRAVEL PLAZA I 85 EXIT 71 SALISBURY NC

41813515
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9780	lb
DRIVE AXLE	26160	lb
TRAILER AXLE	28240	lb
*GROSS WEIGHT	64180	lb

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2013 SHANNON HARRIS 37186 IMPRINT SEAL HERE (IF APPLICABLE) INVALID UNLESS SIGNED

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

Job# 081232 Kannapolis NC Hartz+Hickman MC

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO TRACTOR #: 202 TRAILER #: 316 SH

FEE: $1.00 WEIGHMASTER OR WEIGHER SIGNATURE: SHANNON HARRIS FULL WEIGH TICKET # (IF REWEIGH): 41813502

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

WEIGH NUMBER 3502

CUSTOMER COPY

© CAT Scale® Reg 3041 04/12

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-10-2012

SCALE: 1201
LOCATION: 695 WILCO TRAVEL PLAZA I 85 EXIT 71 SALISBURY NC

41813502
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9740	lb
DRIVE AXLE	27860	lb
TRAILER AXLE	30480	lb
*GROSS WEIGHT	68080	lb

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2013 SYLVIA CASTILLO 34471 IMPRINT SEAL HERE (IF APPLICABLE) INVALID UNLESS SIGNED

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

Job# 081232 Kannapolis NC Hartz+Hickman MC

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO TRACTOR #: 202 TRAILER #: 316 SH

FEE: $9.50 WEIGHMASTER OR WEIGHER SIGNATURE: SYLVIA CASTILLO FULL WEIGH TICKET # (IF REWEIGH): ___

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

WEIGH NUMBER 3502

CUSTOMER COPY

© CAT Scale® Reg 3041 04/12

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-10-2012

SCALE: 1235
LOCATION: 95 BILLS TRUCK STOP I-85 EXIT 86 LINWOOD NC

41853926
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	15980	lb
DRIVE AXLE	33360	lb
TRAILER AXLE	00	lb
*GROSS WEIGHT	49340	lb

Will DH 081232 Kannapolis

IMPRINT SEAL HERE (IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO TRACTOR #: 101 TRAILER #: 0

FEE: $9.50 WEIGHMASTER OR WEIGHER SIGNATURE: JUDI P FULL WEIGH TICKET # (IF REWEIGH): ___

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

WEIGH NUMBER 3926

CUSTOMER COPY

© CAT Scale® Reg 3041 04/12

Waste Oil UST

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

RECEIVED
SEP - 4 2012

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 40.47 tons of non-hazardous contaminated material received on 08/15/2012 from:

Generator: Castle & Cooke NC RC Properties 3, LLC

Originating at: 201 Dale Earnhardt Boulevard
Kannapolis, NC

EC Waste ID #: 081232

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75094

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 76220 Material: Soil
Empty Weight (lbs): 30520 Contaminant: #2 Fuel Oil
Net Weight (lbs): 45700

Quantity 22.85 Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 202/317 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Mitch Queen Date: 8-15-12

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 8.15.12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 75095

GENERATOR INFORMATION

Generator: Castle & Cooke NC RC Properties 3, LLC Phone: 704-586-0007
Site Address: 201 Dale Earnhardt Blvd
City/State: Kannapolis, NC 28081 Contact: Shannon Cottrill

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 65760 Material: Soil
Empty Weight (lbs): 30520 Contaminant: #2 Fuel Oil
Net Weight (lbs): 35240

Quantity 17.62 Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 262/317 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Mitch Queen Date: 8-15-12

FACILITY INFORMATION

Evo Project #: 081232

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 8.15.12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-15-2012

1249
41813698 SCALE 695
LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 71
SALISBURY NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9760 lb
DRIVE AXLE	31060 lb
TRAILER AXLE	35400 lb
*GROSS WEIGHT	76220 lb

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2013 SYLVIA CASTILLO 34471
IMPRINT SEAL HERE (IF APPLICABLE)
INVALID UNLESS SIGNED

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

Job# 081232 Kannapolis NC, Hart+Hickman mf

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO — TRACTOR #: 202 — TRAILER #: 316

WEIGH NUMBER 3698 — FEE $9.50 — WEIGHMASTER OR WEIGHER SIGNATURE: SYLVIA CASTILLO — FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY — DRIVER IN TRUCK UNLESS CHECKED HERE: ___

© CAT Scale® Reg 3041 04/12

SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-15-2012

1553
41813711 SCALE 695
LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 71
SALISBURY NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9920 lb
DRIVE AXLE	30000 lb
TRAILER AXLE	25840 lb
*GROSS WEIGHT	65760 lb

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2013 SHANNON HARRIS 37186
IMPRINT SEAL HERE (IF APPLICABLE)
INVALID UNLESS SIGNED

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

Job# 081232 Kannapolis NC, Hart+Hickman mf

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO — TRACTOR #: 202 — TRAILER #: 316

WEIGH NUMBER 3698 — FEE $1.00 — WEIGHMASTER OR WEIGHER SIGNATURE: S Harris SHANNON HARRIS — FULL WEIGH TICKET # (IF REWEIGH): 41813698

CUSTOMER COPY — DRIVER IN TRUCK UNLESS CHECKED HERE: ___

© CAT Scale® Reg 3041 04/12

Appendix F

Laboratory Analytical Reports

Heating Oil UST

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287

Case Narrative

08/17/2012

Hart & Hickman (Charlotte)
Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Lab Submittal Date: 08/10/2012
Prism Work Order: 2080294

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Peggy J Kendall

Reviewed By

Data Qualifiers Key Reference:

DO	Surrogates diluted out.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

08/17/2012

Prism Work Order: 2080294

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
TI-1 (4)	2080294-01	Solid	08/10/12	08/10/12
TI-2 (4)	2080294-02	Solid	08/10/12	08/10/12
SW-1 (10)	2080294-03	Solid	08/10/12	08/10/12
SW-2 (10)	2080294-04	Solid	08/10/12	08/10/12
SW-3 (10)	2080294-05	Solid	08/10/12	08/10/12
SW-4 (10)	2080294-06	Solid	08/10/12	08/10/12
B-1 (12)	2080294-07	Solid	08/10/12	08/10/12
SP-1	2080294-08	Solid	08/10/12	08/10/12

Samples received in good condition at 2.9 degrees C unless otherwise noted.

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Summary of Detections

08/17/2012

Prism Work Order: 2080294

Prism ID	Client ID	Parameter	Method	Result	Units
2080294-01	TI-1 (4)	Diesel Range Organics	*8015C	8400	mg/kg dry
2080294-01	TI-1 (4)	Gasoline Range Organics	*8015C	96	mg/kg dry
2080294-02	TI-2 (4)	Diesel Range Organics	*8015C	180	mg/kg dry
2080294-08	SP-1	Diesel Range Organics	*8015C	2300	mg/kg dry
2080294-08	SP-1	Gasoline Range Organics	*8015C	20	mg/kg dry

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Laboratory Report

08/17/2012

Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: TI-1 (4)
Prism Sample ID: 2080294-01
Prism Work Order: 2080294
Time Collected: 08/10/12 10:10
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**8400**	**mg/kg dry**	**500**	**71**	**50**	***8015C**	**8/15/12 11:41**	**JMV**	**P2H0236**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*0 %*		*49-124*	*DO*
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**96**	**mg/kg dry**	**6.2**	**1.4**	**50**	***8015C**	**8/13/12 22:31**	**ANG**	**P2H0240**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*137 %*		*50-137*	
General Chemistry Parameters									
% Solids	**70.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: TI-2 (4)
Prism Sample ID: 2080294-02
Prism Work Order: 2080294
Time Collected: 08/10/12 10:15
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**180**	**mg/kg dry**	**9.1**	**1.3**	**1**	***8015C**	**8/14/12 14:40**	**JMV**	**P2H0236**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*102 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.7	1.3	50	*8015C	8/13/12 22:58	ANG	P2H0240
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*133 %*		*50-137*	
General Chemistry Parameters									
% Solids	**77.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-1 (10)
Prism Sample ID: 2080294-03
Prism Work Order: 2080294
Time Collected: 08/10/12 15:05
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	8/17/12 9:14	EAJ	P2H0237
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	8/17/12 9:14	EAJ	P2H0237
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	8/17/12 9:12	EAJ	P2H0237

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*87 %*	*40-140*
o-Terphenyl	*91 %*	*40-140*
2-Fluorobiphenyl	*99 %*	*40-140*
2-Bromonaphthalene	*96 %*	*40-140*

General Chemistry Parameters									
% Solids	**81.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.17	1	*8270D	8/15/12 19:14	KC	P2H0321
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.064	1	*8270D	8/15/12 19:14	KC	P2H0321
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.069	1	*8270D	8/15/12 19:14	KC	P2H0321
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.061	1	*8270D	8/15/12 19:14	KC	P2H0321
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
2-Chlorophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
2-Methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
2-Nitrophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 19:14	KC	P2H0321
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:14	KC	P2H0321
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.044	1	*8270D	8/15/12 19:14	KC	P2H0321
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.090	1	*8270D	8/15/12 19:14	KC	P2H0321
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
4-Chloroaniline	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:14	KC	P2H0321
4-Nitrophenol	BRL	mg/kg dry	0.40	0.050	1	*8270D	8/15/12 19:14	KC	P2H0321
Acenaphthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:14	KC	P2H0321
Acenaphthylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
Anthracene	BRL	mg/kg dry	0.40	0.080	1	*8270D	8/15/12 19:14	KC	P2H0321
Azobenzene	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.083	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.055	1	*8270D	8/15/12 19:14	KC	P2H0321

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-1 (10)
Prism Sample ID: 2080294-03
Prism Work Order: 2080294
Time Collected: 08/10/12 15:05
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzoic Acid	BRL	mg/kg dry	0.40	0.054	1	*8270D	8/15/12 19:14	KC	P2H0321
Benzyl alcohol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.21	1	*8270D	8/15/12 19:14	KC	P2H0321
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 19:14	KC	P2H0321
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.078	1	*8270D	8/15/12 19:14	KC	P2H0321
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.090	1	*8270D	8/15/12 19:14	KC	P2H0321
Chrysene	BRL	mg/kg dry	0.40	0.090	1	*8270D	8/15/12 19:14	KC	P2H0321
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
Dibenzofuran	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:14	KC	P2H0321
Diethyl phthalate	BRL	mg/kg dry	0.40	0.073	1	*8270D	8/15/12 19:14	KC	P2H0321
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 19:14	KC	P2H0321
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.096	1	*8270D	8/15/12 19:14	KC	P2H0321
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 19:14	KC	P2H0321
Fluoranthene	BRL	mg/kg dry	0.40	0.085	1	*8270D	8/15/12 19:14	KC	P2H0321
Fluorene	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 19:14	KC	P2H0321
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 19:14	KC	P2H0321
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:14	KC	P2H0321
Hexachloroethane	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:14	KC	P2H0321
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:14	KC	P2H0321
Isophorone	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
Naphthalene	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 19:14	KC	P2H0321
Nitrobenzene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:14	KC	P2H0321
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.081	1	*8270D	8/15/12 19:14	KC	P2H0321
Pentachlorophenol	BRL	mg/kg dry	0.40	0.033	1	*8270D	8/15/12 19:14	KC	P2H0321
Phenanthrene	BRL	mg/kg dry	0.40	0.071	1	*8270D	8/15/12 19:14	KC	P2H0321
Phenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:14	KC	P2H0321
Pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:14	KC	P2H0321

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*77 %*	*37-131*
2-Fluorobiphenyl	*111 %*	*47-130*
2-Fluorophenol	*79 %*	*44-117*
Nitrobenzene-d5	*92 %*	*45-121*
Phenol-d5	*82 %*	*37-127*
Terphenyl-d14	*83 %*	*38-135*

Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00018	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00088	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00045	1	*8260B	8/14/12 14:07	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-1 (10)
Prism Sample ID: 2080294-03
Prism Work Order: 2080294
Time Collected: 08/10/12 15:05
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00045	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00056	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00039	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00081	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00031	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.0010	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00061	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00024	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00086	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.000074	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00058	1	*8260B	8/14/12 14:07	CGP	P2H0246
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00039	1	*8260B	8/14/12 14:07	CGP	P2H0246
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	8/14/12 14:07	CGP	P2H0246
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00033	1	*8260B	8/14/12 14:07	CGP	P2H0246
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	8/14/12 14:07	CGP	P2H0246
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	8/14/12 14:07	CGP	P2H0246
Acetone	BRL	mg/kg dry	0.053	0.0028	1	*8260B	8/14/12 14:07	CGP	P2H0246
Benzene	BRL	mg/kg dry	0.0032	0.00032	1	*8260B	8/14/12 14:07	CGP	P2H0246
Bromobenzene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	8/14/12 14:07	CGP	P2H0246
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00078	1	*8260B	8/14/12 14:07	CGP	P2H0246
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	8/14/12 14:07	CGP	P2H0246
Bromoform	BRL	mg/kg dry	0.0053	0.00094	1	*8260B	8/14/12 14:07	CGP	P2H0246
Bromomethane	BRL	mg/kg dry	0.011	0.0015	1	*8260B	8/14/12 14:07	CGP	P2H0246
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00029	1	*8260B	8/14/12 14:07	CGP	P2H0246
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	8/14/12 14:07	CGP	P2H0246
Chloroethane	BRL	mg/kg dry	0.011	0.0041	1	*8260B	8/14/12 14:07	CGP	P2H0246
Chloroform	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	8/14/12 14:07	CGP	P2H0246
Chloromethane	BRL	mg/kg dry	0.0053	0.0027	1	*8260B	8/14/12 14:07	CGP	P2H0246
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00043	1	*8260B	8/14/12 14:07	CGP	P2H0246
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	8/14/12 14:07	CGP	P2H0246
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00036	1	*8260B	8/14/12 14:07	CGP	P2H0246
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00057	1	*8260B	8/14/12 14:07	CGP	P2H0246
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	8/14/12 14:07	CGP	P2H0246
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	8/14/12 14:07	CGP	P2H0246
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	8/14/12 14:07	CGP	P2H0246
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00069	1	*8260B	8/14/12 14:07	CGP	P2H0246
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.0011	1	*8260B	8/14/12 14:07	CGP	P2H0246
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.0019	1	*8260B	8/14/12 14:07	CGP	P2H0246
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.0014	1	*8260B	8/14/12 14:07	CGP	P2H0246
Methylene Chloride	BRL	mg/kg dry	0.0053	0.00039	1	*8260B	8/14/12 14:07	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-1 (10)
Prism Sample ID: 2080294-03
Prism Work Order: 2080294
Time Collected: 08/10/12 15:05
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00041	1	*8260B	8/14/12 14:07	CGP	P2H0246
Naphthalene	BRL	mg/kg dry	0.011	0.00039	1	*8260B	8/14/12 14:07	CGP	P2H0246
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00024	1	*8260B	8/14/12 14:07	CGP	P2H0246
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	8/14/12 14:07	CGP	P2H0246
o-Xylene	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	8/14/12 14:07	CGP	P2H0246
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	8/14/12 14:07	CGP	P2H0246
Styrene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	8/14/12 14:07	CGP	P2H0246
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00028	1	*8260B	8/14/12 14:07	CGP	P2H0246
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00037	1	*8260B	8/14/12 14:07	CGP	P2H0246
Toluene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	8/14/12 14:07	CGP	P2H0246
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00062	1	*8260B	8/14/12 14:07	CGP	P2H0246
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	8/14/12 14:07	CGP	P2H0246
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00049	1	*8260B	8/14/12 14:07	CGP	P2H0246
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00043	1	*8260B	8/14/12 14:07	CGP	P2H0246
Vinyl acetate	BRL	mg/kg dry	0.027	0.0015	1	*8260B	8/14/12 14:07	CGP	P2H0246
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00069	1	*8260B	8/14/12 14:07	CGP	P2H0246
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	*8260B	8/14/12 14:07	CGP	P2H0246

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*95 %*	*84-123*
Toluene-d8	*97 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	16	0.94	100	*MADEP VPH	8/14/12 13:56	ANG	P2H0245
C9-C12 Aliphatics	BRL	mg/kg dry	16	2.7	100	*MADEP VPH	8/14/12 13:56	ANG	P2H0245
C9-C10 Aromatics	BRL	mg/kg dry	16	0.14	100	*MADEP VPH	8/14/12 13:56	ANG	P2H0245

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*82 %*	*70-130*
2,5-Dibromotoluene (FID)	*79 %*	*70-130*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-2 (10)
Prism Sample ID: 2080294-04
Prism Work Order: 2080294
Time Collected: 08/10/12 15:10
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	8/13/12 20:51	EAJ	P2H0237
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	8/13/12 20:51	EAJ	P2H0237
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	8/13/12 20:44	EAJ	P2H0237

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*92 %*	*40-140*
o-Terphenyl	*92 %*	*40-140*
2-Fluorobiphenyl	*100 %*	*40-140*
2-Bromonaphthalene	*96 %*	*40-140*

General Chemistry Parameters									
% Solids	**82.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 19:53	KC	P2H0321
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.063	1	*8270D	8/15/12 19:53	KC	P2H0321
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 19:53	KC	P2H0321
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.061	1	*8270D	8/15/12 19:53	KC	P2H0321
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
2-Chlorophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
2-Methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
2-Nitrophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.067	1	*8270D	8/15/12 19:53	KC	P2H0321
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:53	KC	P2H0321
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.043	1	*8270D	8/15/12 19:53	KC	P2H0321
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 19:53	KC	P2H0321
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
4-Chloroaniline	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:53	KC	P2H0321
4-Nitrophenol	BRL	mg/kg dry	0.40	0.050	1	*8270D	8/15/12 19:53	KC	P2H0321
Acenaphthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:53	KC	P2H0321
Acenaphthylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
Anthracene	BRL	mg/kg dry	0.40	0.079	1	*8270D	8/15/12 19:53	KC	P2H0321
Azobenzene	BRL	mg/kg dry	0.40	0.092	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.082	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.055	1	*8270D	8/15/12 19:53	KC	P2H0321

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-2 (10)
Prism Sample ID: 2080294-04
Prism Work Order: 2080294
Time Collected: 08/10/12 15:10
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzoic Acid	BRL	mg/kg dry	0.40	0.053	1	*8270D	8/15/12 19:53	KC	P2H0321
Benzyl alcohol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.20	1	*8270D	8/15/12 19:53	KC	P2H0321
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 19:53	KC	P2H0321
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.077	1	*8270D	8/15/12 19:53	KC	P2H0321
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 19:53	KC	P2H0321
Chrysene	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 19:53	KC	P2H0321
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
Dibenzofuran	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:53	KC	P2H0321
Diethyl phthalate	BRL	mg/kg dry	0.40	0.072	1	*8270D	8/15/12 19:53	KC	P2H0321
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 19:53	KC	P2H0321
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.095	1	*8270D	8/15/12 19:53	KC	P2H0321
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 19:53	KC	P2H0321
Fluoranthene	BRL	mg/kg dry	0.40	0.084	1	*8270D	8/15/12 19:53	KC	P2H0321
Fluorene	BRL	mg/kg dry	0.40	0.093	1	*8270D	8/15/12 19:53	KC	P2H0321
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.067	1	*8270D	8/15/12 19:53	KC	P2H0321
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 19:53	KC	P2H0321
Hexachloroethane	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:53	KC	P2H0321
Isophorone	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
Naphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
Nitrobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 19:53	KC	P2H0321
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 19:53	KC	P2H0321
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.081	1	*8270D	8/15/12 19:53	KC	P2H0321
Pentachlorophenol	BRL	mg/kg dry	0.40	0.033	1	*8270D	8/15/12 19:53	KC	P2H0321
Phenanthrene	BRL	mg/kg dry	0.40	0.070	1	*8270D	8/15/12 19:53	KC	P2H0321
Phenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 19:53	KC	P2H0321
Pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 19:53	KC	P2H0321

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*79 %*	*37-131*
2-Fluorobiphenyl	*116 %*	*47-130*
2-Fluorophenol	*84 %*	*44-117*
Nitrobenzene-d5	*101 %*	*45-121*
Phenol-d5	*90 %*	*37-127*
Terphenyl-d14	*72 %*	*38-135*

Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00017	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00087	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	*8260B	8/14/12 14:39	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-2 (10)
Prism Sample ID: 2080294-04
Prism Work Order: 2080294
Time Collected: 08/10/12 15:10
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00032	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00055	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00039	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00079	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00031	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.0010	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00060	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00085	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.000072	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00057	1	*8260B	8/14/12 14:39	CGP	P2H0246
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00038	1	*8260B	8/14/12 14:39	CGP	P2H0246
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 14:39	CGP	P2H0246
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00032	1	*8260B	8/14/12 14:39	CGP	P2H0246
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00025	1	*8260B	8/14/12 14:39	CGP	P2H0246
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 14:39	CGP	P2H0246
Acetone	BRL	mg/kg dry	0.052	0.0028	1	*8260B	8/14/12 14:39	CGP	P2H0246
Benzene	BRL	mg/kg dry	0.0031	0.00032	1	*8260B	8/14/12 14:39	CGP	P2H0246
Bromobenzene	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 14:39	CGP	P2H0246
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00076	1	*8260B	8/14/12 14:39	CGP	P2H0246
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 14:39	CGP	P2H0246
Bromoform	BRL	mg/kg dry	0.0052	0.00093	1	*8260B	8/14/12 14:39	CGP	P2H0246
Bromomethane	BRL	mg/kg dry	0.010	0.0015	1	*8260B	8/14/12 14:39	CGP	P2H0246
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00029	1	*8260B	8/14/12 14:39	CGP	P2H0246
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 14:39	CGP	P2H0246
Chloroethane	BRL	mg/kg dry	0.010	0.0040	1	*8260B	8/14/12 14:39	CGP	P2H0246
Chloroform	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 14:39	CGP	P2H0246
Chloromethane	BRL	mg/kg dry	0.0052	0.0027	1	*8260B	8/14/12 14:39	CGP	P2H0246
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00042	1	*8260B	8/14/12 14:39	CGP	P2H0246
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00026	1	*8260B	8/14/12 14:39	CGP	P2H0246
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00036	1	*8260B	8/14/12 14:39	CGP	P2H0246
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00056	1	*8260B	8/14/12 14:39	CGP	P2H0246
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00034	1	*8260B	8/14/12 14:39	CGP	P2H0246
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 14:39	CGP	P2H0246
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00026	1	*8260B	8/14/12 14:39	CGP	P2H0246
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00067	1	*8260B	8/14/12 14:39	CGP	P2H0246
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.0011	1	*8260B	8/14/12 14:39	CGP	P2H0246
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.0019	1	*8260B	8/14/12 14:39	CGP	P2H0246
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.0014	1	*8260B	8/14/12 14:39	CGP	P2H0246
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00038	1	*8260B	8/14/12 14:39	CGP	P2H0246

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-2 (10)
Prism Sample ID: 2080294-04
Prism Work Order: 2080294
Time Collected: 08/10/12 15:10
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00040	1	*8260B	8/14/12 14:39	CGP	P2H0246
Naphthalene	BRL	mg/kg dry	0.010	0.00038	1	*8260B	8/14/12 14:39	CGP	P2H0246
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00023	1	*8260B	8/14/12 14:39	CGP	P2H0246
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00030	1	*8260B	8/14/12 14:39	CGP	P2H0246
o-Xylene	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 14:39	CGP	P2H0246
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00021	1	*8260B	8/14/12 14:39	CGP	P2H0246
Styrene	BRL	mg/kg dry	0.0052	0.00023	1	*8260B	8/14/12 14:39	CGP	P2H0246
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00027	1	*8260B	8/14/12 14:39	CGP	P2H0246
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00036	1	*8260B	8/14/12 14:39	CGP	P2H0246
Toluene	BRL	mg/kg dry	0.0052	0.00031	1	*8260B	8/14/12 14:39	CGP	P2H0246
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00061	1	*8260B	8/14/12 14:39	CGP	P2H0246
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00025	1	*8260B	8/14/12 14:39	CGP	P2H0246
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00048	1	*8260B	8/14/12 14:39	CGP	P2H0246
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00043	1	*8260B	8/14/12 14:39	CGP	P2H0246
Vinyl acetate	BRL	mg/kg dry	0.026	0.0015	1	*8260B	8/14/12 14:39	CGP	P2H0246
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00068	1	*8260B	8/14/12 14:39	CGP	P2H0246
Xylenes, total	BRL	mg/kg dry	0.016	0.00098	1	*8260B	8/14/12 14:39	CGP	P2H0246

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*87 %*	*84-123*
Toluene-d8	*96 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	17	1.0	100	*MADEP VPH	8/14/12 14:27	ANG	P2H0245
C9-C12 Aliphatics	BRL	mg/kg dry	17	2.9	100	*MADEP VPH	8/14/12 14:27	ANG	P2H0245
C9-C10 Aromatics	BRL	mg/kg dry	17	0.15	100	*MADEP VPH	8/14/12 14:27	ANG	P2H0245

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*80 %*	*70-130*
2,5-Dibromotoluene (FID)	*77 %*	*70-130*

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-3 (10)
Prism Sample ID: 2080294-05
Prism Work Order: 2080294
Time Collected: 08/10/12 15:15
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	8/13/12 21:29	EAJ	P2H0237
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	8/13/12 21:29	EAJ	P2H0237
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	8/13/12 21:21	EAJ	P2H0237

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*95 %*	*40-140*
o-Terphenyl	*95 %*	*40-140*
2-Fluorobiphenyl	*100 %*	*40-140*
2-Bromonaphthalene	*99 %*	*40-140*

General Chemistry Parameters									
% Solids	**83.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 20:33	KC	P2H0321
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.063	1	*8270D	8/15/12 20:33	KC	P2H0321
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 20:33	KC	P2H0321
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.060	1	*8270D	8/15/12 20:33	KC	P2H0321
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
2-Chlorophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
2-Methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
2-Nitrophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.066	1	*8270D	8/15/12 20:33	KC	P2H0321
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 20:33	KC	P2H0321
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.043	1	*8270D	8/15/12 20:33	KC	P2H0321
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 20:33	KC	P2H0321
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
4-Chloroaniline	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 20:33	KC	P2H0321
4-Nitrophenol	BRL	mg/kg dry	0.40	0.049	1	*8270D	8/15/12 20:33	KC	P2H0321
Acenaphthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 20:33	KC	P2H0321
Acenaphthylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
Anthracene	BRL	mg/kg dry	0.40	0.078	1	*8270D	8/15/12 20:33	KC	P2H0321
Azobenzene	BRL	mg/kg dry	0.40	0.092	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.082	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.074	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.054	1	*8270D	8/15/12 20:33	KC	P2H0321

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-3 (10)
Prism Sample ID: 2080294-05
Prism Work Order: 2080294
Time Collected: 08/10/12 15:15
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzoic Acid	BRL	mg/kg dry	0.40	0.053	1	*8270D	8/15/12 20:33	KC	P2H0321
Benzyl alcohol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.20	1	*8270D	8/15/12 20:33	KC	P2H0321
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 20:33	KC	P2H0321
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.077	1	*8270D	8/15/12 20:33	KC	P2H0321
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 20:33	KC	P2H0321
Chrysene	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 20:33	KC	P2H0321
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
Dibenzofuran	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 20:33	KC	P2H0321
Diethyl phthalate	BRL	mg/kg dry	0.40	0.072	1	*8270D	8/15/12 20:33	KC	P2H0321
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.074	1	*8270D	8/15/12 20:33	KC	P2H0321
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 20:33	KC	P2H0321
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 20:33	KC	P2H0321
Fluoranthene	BRL	mg/kg dry	0.40	0.084	1	*8270D	8/15/12 20:33	KC	P2H0321
Fluorene	BRL	mg/kg dry	0.40	0.092	1	*8270D	8/15/12 20:33	KC	P2H0321
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.067	1	*8270D	8/15/12 20:33	KC	P2H0321
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 20:33	KC	P2H0321
Hexachloroethane	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 20:33	KC	P2H0321
Isophorone	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
Naphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
Nitrobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 20:33	KC	P2H0321
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 20:33	KC	P2H0321
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.080	1	*8270D	8/15/12 20:33	KC	P2H0321
Pentachlorophenol	BRL	mg/kg dry	0.40	0.033	1	*8270D	8/15/12 20:33	KC	P2H0321
Phenanthrene	BRL	mg/kg dry	0.40	0.070	1	*8270D	8/15/12 20:33	KC	P2H0321
Phenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 20:33	KC	P2H0321
Pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 20:33	KC	P2H0321

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*80 %*	*37-131*
2-Fluorobiphenyl	*118 %*	*47-130*
2-Fluorophenol	*84 %*	*44-117*
Nitrobenzene-d5	*101 %*	*45-121*
Phenol-d5	*90 %*	*37-127*
Terphenyl-d14	*69 %*	*38-135*

Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00017	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00086	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	*8260B	8/14/12 15:12	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-3 (10)
Prism Sample ID: 2080294-05
Prism Work Order: 2080294
Time Collected: 08/10/12 15:15
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00032	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00055	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00038	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00079	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00031	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.0010	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00060	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00084	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.000072	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00056	1	*8260B	8/14/12 15:12	CGP	P2H0246
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00038	1	*8260B	8/14/12 15:12	CGP	P2H0246
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 15:12	CGP	P2H0246
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00032	1	*8260B	8/14/12 15:12	CGP	P2H0246
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 15:12	CGP	P2H0246
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 15:12	CGP	P2H0246
Acetone	BRL	mg/kg dry	0.052	0.0028	1	*8260B	8/14/12 15:12	CGP	P2H0246
Benzene	BRL	mg/kg dry	0.0031	0.00032	1	*8260B	8/14/12 15:12	CGP	P2H0246
Bromobenzene	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 15:12	CGP	P2H0246
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00076	1	*8260B	8/14/12 15:12	CGP	P2H0246
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 15:12	CGP	P2H0246
Bromoform	BRL	mg/kg dry	0.0052	0.00092	1	*8260B	8/14/12 15:12	CGP	P2H0246
Bromomethane	BRL	mg/kg dry	0.010	0.0015	1	*8260B	8/14/12 15:12	CGP	P2H0246
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00028	1	*8260B	8/14/12 15:12	CGP	P2H0246
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	*8260B	8/14/12 15:12	CGP	P2H0246
Chloroethane	BRL	mg/kg dry	0.010	0.0040	1	*8260B	8/14/12 15:12	CGP	P2H0246
Chloroform	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 15:12	CGP	P2H0246
Chloromethane	BRL	mg/kg dry	0.0052	0.0026	1	*8260B	8/14/12 15:12	CGP	P2H0246
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00042	1	*8260B	8/14/12 15:12	CGP	P2H0246
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00026	1	*8260B	8/14/12 15:12	CGP	P2H0246
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00035	1	*8260B	8/14/12 15:12	CGP	P2H0246
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00056	1	*8260B	8/14/12 15:12	CGP	P2H0246
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00034	1	*8260B	8/14/12 15:12	CGP	P2H0246
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00022	1	*8260B	8/14/12 15:12	CGP	P2H0246
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00026	1	*8260B	8/14/12 15:12	CGP	P2H0246
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00067	1	*8260B	8/14/12 15:12	CGP	P2H0246
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.0011	1	*8260B	8/14/12 15:12	CGP	P2H0246
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.0019	1	*8260B	8/14/12 15:12	CGP	P2H0246
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.0014	1	*8260B	8/14/12 15:12	CGP	P2H0246
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00038	1	*8260B	8/14/12 15:12	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-3 (10)
Prism Sample ID: 2080294-05
Prism Work Order: 2080294
Time Collected: 08/10/12 15:15
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00040	1	*8260B	8/14/12 15:12	CGP	P2H0246
Naphthalene	BRL	mg/kg dry	0.010	0.00038	1	*8260B	8/14/12 15:12	CGP	P2H0246
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00023	1	*8260B	8/14/12 15:12	CGP	P2H0246
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00030	1	*8260B	8/14/12 15:12	CGP	P2H0246
o-Xylene	BRL	mg/kg dry	0.0052	0.00033	1	*8260B	8/14/12 15:12	CGP	P2H0246
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00021	1	*8260B	8/14/12 15:12	CGP	P2H0246
Styrene	BRL	mg/kg dry	0.0052	0.00023	1	*8260B	8/14/12 15:12	CGP	P2H0246
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00027	1	*8260B	8/14/12 15:12	CGP	P2H0246
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00036	1	*8260B	8/14/12 15:12	CGP	P2H0246
Toluene	BRL	mg/kg dry	0.0052	0.00031	1	*8260B	8/14/12 15:12	CGP	P2H0246
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00060	1	*8260B	8/14/12 15:12	CGP	P2H0246
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00025	1	*8260B	8/14/12 15:12	CGP	P2H0246
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00048	1	*8260B	8/14/12 15:12	CGP	P2H0246
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00042	1	*8260B	8/14/12 15:12	CGP	P2H0246
Vinyl acetate	BRL	mg/kg dry	0.026	0.0015	1	*8260B	8/14/12 15:12	CGP	P2H0246
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00067	1	*8260B	8/14/12 15:12	CGP	P2H0246
Xylenes, total	BRL	mg/kg dry	0.016	0.00097	1	*8260B	8/14/12 15:12	CGP	P2H0246

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*87 %*	*84-123*
Toluene-d8	*96 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	16	0.91	100	*MADEP VPH	8/14/12 14:59	ANG	P2H0245
C9-C12 Aliphatics	BRL	mg/kg dry	16	2.6	100	*MADEP VPH	8/14/12 14:59	ANG	P2H0245
C9-C10 Aromatics	BRL	mg/kg dry	16	0.14	100	*MADEP VPH	8/14/12 14:59	ANG	P2H0245

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*92 %*	*70-130*
2,5-Dibromotoluene (FID)	*89 %*	*70-130*

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-4 (10)
Prism Sample ID: 2080294-06
Prism Work Order: 2080294
Time Collected: 08/10/12 15:20
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	8/13/12 22:06	EAJ	P2H0237
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	8/13/12 22:06	EAJ	P2H0237
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	8/13/12 21:59	EAJ	P2H0237

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*93 %*	*40-140*
o-Terphenyl	*93 %*	*40-140*
2-Fluorobiphenyl	*97 %*	*40-140*
2-Bromonaphthalene	*94 %*	*40-140*

General Chemistry Parameters									
% Solids	**82.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 21:11	KC	P2H0321
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.063	1	*8270D	8/15/12 21:11	KC	P2H0321
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 21:11	KC	P2H0321
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.060	1	*8270D	8/15/12 21:11	KC	P2H0321
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
2-Chlorophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
2-Methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
2-Nitrophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.066	1	*8270D	8/15/12 21:11	KC	P2H0321
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:11	KC	P2H0321
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.043	1	*8270D	8/15/12 21:11	KC	P2H0321
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 21:11	KC	P2H0321
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
4-Chloroaniline	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:11	KC	P2H0321
4-Nitrophenol	BRL	mg/kg dry	0.40	0.049	1	*8270D	8/15/12 21:11	KC	P2H0321
Acenaphthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:11	KC	P2H0321
Acenaphthylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
Anthracene	BRL	mg/kg dry	0.40	0.078	1	*8270D	8/15/12 21:11	KC	P2H0321
Azobenzene	BRL	mg/kg dry	0.40	0.092	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.082	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.074	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.054	1	*8270D	8/15/12 21:11	KC	P2H0321

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-4 (10)
Prism Sample ID: 2080294-06
Prism Work Order: 2080294
Time Collected: 08/10/12 15:20
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzoic Acid	BRL	mg/kg dry	0.40	0.053	1	*8270D	8/15/12 21:11	KC	P2H0321
Benzyl alcohol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.20	1	*8270D	8/15/12 21:11	KC	P2H0321
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 21:11	KC	P2H0321
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.077	1	*8270D	8/15/12 21:11	KC	P2H0321
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 21:11	KC	P2H0321
Chrysene	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 21:11	KC	P2H0321
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
Dibenzofuran	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:11	KC	P2H0321
Diethyl phthalate	BRL	mg/kg dry	0.40	0.072	1	*8270D	8/15/12 21:11	KC	P2H0321
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.074	1	*8270D	8/15/12 21:11	KC	P2H0321
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 21:11	KC	P2H0321
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.088	1	*8270D	8/15/12 21:11	KC	P2H0321
Fluoranthene	BRL	mg/kg dry	0.40	0.084	1	*8270D	8/15/12 21:11	KC	P2H0321
Fluorene	BRL	mg/kg dry	0.40	0.093	1	*8270D	8/15/12 21:11	KC	P2H0321
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.067	1	*8270D	8/15/12 21:11	KC	P2H0321
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:11	KC	P2H0321
Hexachloroethane	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:11	KC	P2H0321
Isophorone	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
Naphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
Nitrobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:11	KC	P2H0321
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:11	KC	P2H0321
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.080	1	*8270D	8/15/12 21:11	KC	P2H0321
Pentachlorophenol	BRL	mg/kg dry	0.40	0.033	1	*8270D	8/15/12 21:11	KC	P2H0321
Phenanthrene	BRL	mg/kg dry	0.40	0.070	1	*8270D	8/15/12 21:11	KC	P2H0321
Phenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:11	KC	P2H0321
Pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:11	KC	P2H0321

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*78 %*	*37-131*
2-Fluorobiphenyl	*106 %*	*47-130*
2-Fluorophenol	*77 %*	*44-117*
Nitrobenzene-d5	*90 %*	*45-121*
Phenol-d5	*84 %*	*37-127*
Terphenyl-d14	*67 %*	*38-135*

Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0054	0.00018	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00090	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0054	0.00046	1	*8260B	8/14/12 15:45	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-4 (10)
Prism Sample ID: 2080294-06
Prism Work Order: 2080294
Time Collected: 08/10/12 15:20
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1-Dichloroethane	BRL	mg/kg dry	0.0054	0.00046	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,1-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00033	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,1-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00057	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00040	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0054	0.00082	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00032	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.0011	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2-Dibromoethane	BRL	mg/kg dry	0.0054	0.00062	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00025	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2-Dichloroethane	BRL	mg/kg dry	0.0054	0.00088	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00034	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.00026	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.000075	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,3-Dichloropropane	BRL	mg/kg dry	0.0054	0.00059	1	*8260B	8/14/12 15:45	CGP	P2H0246
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00040	1	*8260B	8/14/12 15:45	CGP	P2H0246
2,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00034	1	*8260B	8/14/12 15:45	CGP	P2H0246
2-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00033	1	*8260B	8/14/12 15:45	CGP	P2H0246
4-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00025	1	*8260B	8/14/12 15:45	CGP	P2H0246
4-Isopropyltoluene	BRL	mg/kg dry	0.0054	0.00034	1	*8260B	8/14/12 15:45	CGP	P2H0246
Acetone	BRL	mg/kg dry	0.054	0.0029	1	*8260B	8/14/12 15:45	CGP	P2H0246
Benzene	BRL	mg/kg dry	0.0033	0.00033	1	*8260B	8/14/12 15:45	CGP	P2H0246
Bromobenzene	BRL	mg/kg dry	0.0054	0.00023	1	*8260B	8/14/12 15:45	CGP	P2H0246
Bromochloromethane	BRL	mg/kg dry	0.0054	0.00079	1	*8260B	8/14/12 15:45	CGP	P2H0246
Bromodichloromethane	BRL	mg/kg dry	0.0054	0.00025	1	*8260B	8/14/12 15:45	CGP	P2H0246
Bromoform	BRL	mg/kg dry	0.0054	0.00096	1	*8260B	8/14/12 15:45	CGP	P2H0246
Bromomethane	BRL	mg/kg dry	0.011	0.0015	1	*8260B	8/14/12 15:45	CGP	P2H0246
Carbon Tetrachloride	BRL	mg/kg dry	0.0054	0.00030	1	*8260B	8/14/12 15:45	CGP	P2H0246
Chlorobenzene	BRL	mg/kg dry	0.0054	0.00025	1	*8260B	8/14/12 15:45	CGP	P2H0246
Chloroethane	BRL	mg/kg dry	0.011	0.0041	1	*8260B	8/14/12 15:45	CGP	P2H0246
Chloroform	BRL	mg/kg dry	0.0054	0.00023	1	*8260B	8/14/12 15:45	CGP	P2H0246
Chloromethane	BRL	mg/kg dry	0.0054	0.0028	1	*8260B	8/14/12 15:45	CGP	P2H0246
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00044	1	*8260B	8/14/12 15:45	CGP	P2H0246
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00027	1	*8260B	8/14/12 15:45	CGP	P2H0246
Dibromochloromethane	BRL	mg/kg dry	0.0054	0.00037	1	*8260B	8/14/12 15:45	CGP	P2H0246
Dichlorodifluoromethane	BRL	mg/kg dry	0.0054	0.00058	1	*8260B	8/14/12 15:45	CGP	P2H0246
Ethylbenzene	BRL	mg/kg dry	0.0054	0.00035	1	*8260B	8/14/12 15:45	CGP	P2H0246
Isopropyl Ether	BRL	mg/kg dry	0.0054	0.00023	1	*8260B	8/14/12 15:45	CGP	P2H0246
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0054	0.00027	1	*8260B	8/14/12 15:45	CGP	P2H0246
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00070	1	*8260B	8/14/12 15:45	CGP	P2H0246
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.054	0.0011	1	*8260B	8/14/12 15:45	CGP	P2H0246
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.0019	1	*8260B	8/14/12 15:45	CGP	P2H0246
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.054	0.0014	1	*8260B	8/14/12 15:45	CGP	P2H0246
Methylene Chloride	BRL	mg/kg dry	0.0054	0.00039	1	*8260B	8/14/12 15:45	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SW-4 (10)
Prism Sample ID: 2080294-06
Prism Work Order: 2080294
Time Collected: 08/10/12 15:20
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00042	1	*8260B	8/14/12 15:45	CGP	P2H0246
Naphthalene	BRL	mg/kg dry	0.011	0.00040	1	*8260B	8/14/12 15:45	CGP	P2H0246
n-Butylbenzene	BRL	mg/kg dry	0.0054	0.00024	1	*8260B	8/14/12 15:45	CGP	P2H0246
n-Propylbenzene	BRL	mg/kg dry	0.0054	0.00031	1	*8260B	8/14/12 15:45	CGP	P2H0246
o-Xylene	BRL	mg/kg dry	0.0054	0.00034	1	*8260B	8/14/12 15:45	CGP	P2H0246
sec-Butylbenzene	BRL	mg/kg dry	0.0054	0.00022	1	*8260B	8/14/12 15:45	CGP	P2H0246
Styrene	BRL	mg/kg dry	0.0054	0.00024	1	*8260B	8/14/12 15:45	CGP	P2H0246
tert-Butylbenzene	BRL	mg/kg dry	0.0054	0.00028	1	*8260B	8/14/12 15:45	CGP	P2H0246
Tetrachloroethylene	BRL	mg/kg dry	0.0054	0.00038	1	*8260B	8/14/12 15:45	CGP	P2H0246
Toluene	BRL	mg/kg dry	0.0054	0.00032	1	*8260B	8/14/12 15:45	CGP	P2H0246
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00063	1	*8260B	8/14/12 15:45	CGP	P2H0246
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00026	1	*8260B	8/14/12 15:45	CGP	P2H0246
Trichloroethylene	BRL	mg/kg dry	0.0054	0.00050	1	*8260B	8/14/12 15:45	CGP	P2H0246
Trichlorofluoromethane	BRL	mg/kg dry	0.0054	0.00044	1	*8260B	8/14/12 15:45	CGP	P2H0246
Vinyl acetate	BRL	mg/kg dry	0.027	0.0015	1	*8260B	8/14/12 15:45	CGP	P2H0246
Vinyl chloride	BRL	mg/kg dry	0.0054	0.00070	1	*8260B	8/14/12 15:45	CGP	P2H0246
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	*8260B	8/14/12 15:45	CGP	P2H0246

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*95 %*	*84-123*
Toluene-d8	*97 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	17	0.99	100	*MADEP VPH	8/14/12 15:30	ANG	P2H0245
C9-C12 Aliphatics	BRL	mg/kg dry	17	2.8	100	*MADEP VPH	8/14/12 15:30	ANG	P2H0245
C9-C10 Aromatics	BRL	mg/kg dry	17	0.15	100	*MADEP VPH	8/14/12 15:30	ANG	P2H0245

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*87 %*	*70-130*
2,5-Dibromotoluene (FID)	*84 %*	*70-130*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: B-1 (12)
Prism Sample ID: 2080294-07
Prism Work Order: 2080294
Time Collected: 08/10/12 15:25
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	8/13/12 22:43	EAJ	P2H0237
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	8/13/12 22:43	EAJ	P2H0237
C11-C22 Aromatics	BRL	mg/kg dry	12	2.8	1	*MADEP EPH	8/13/12 22:36	EAJ	P2H0237

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*94 %*	*40-140*
o-Terphenyl	*94 %*	*40-140*
2-Fluorobiphenyl	*102 %*	*40-140*
2-Bromonaphthalene	*101 %*	*40-140*

General Chemistry Parameters									
% Solids	**81.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.17	1	*8270D	8/15/12 21:50	KC	P2H0321
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.064	1	*8270D	8/15/12 21:50	KC	P2H0321
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.069	1	*8270D	8/15/12 21:50	KC	P2H0321
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.061	1	*8270D	8/15/12 21:50	KC	P2H0321
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
2-Chlorophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
2-Methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
2-Nitrophenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.067	1	*8270D	8/15/12 21:50	KC	P2H0321
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:50	KC	P2H0321
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.044	1	*8270D	8/15/12 21:50	KC	P2H0321
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.090	1	*8270D	8/15/12 21:50	KC	P2H0321
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
4-Chloroaniline	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:50	KC	P2H0321
4-Nitrophenol	BRL	mg/kg dry	0.40	0.050	1	*8270D	8/15/12 21:50	KC	P2H0321
Acenaphthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:50	KC	P2H0321
Acenaphthylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
Anthracene	BRL	mg/kg dry	0.40	0.080	1	*8270D	8/15/12 21:50	KC	P2H0321
Azobenzene	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.083	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.055	1	*8270D	8/15/12 21:50	KC	P2H0321

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: B-1 (12)
Prism Sample ID: 2080294-07
Prism Work Order: 2080294
Time Collected: 08/10/12 15:25
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzoic Acid	BRL	mg/kg dry	0.40	0.053	1	*8270D	8/15/12 21:50	KC	P2H0321
Benzyl alcohol	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.21	1	*8270D	8/15/12 21:50	KC	P2H0321
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 21:50	KC	P2H0321
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.078	1	*8270D	8/15/12 21:50	KC	P2H0321
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 21:50	KC	P2H0321
Chrysene	BRL	mg/kg dry	0.40	0.090	1	*8270D	8/15/12 21:50	KC	P2H0321
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
Dibenzofuran	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:50	KC	P2H0321
Diethyl phthalate	BRL	mg/kg dry	0.40	0.073	1	*8270D	8/15/12 21:50	KC	P2H0321
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.075	1	*8270D	8/15/12 21:50	KC	P2H0321
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.096	1	*8270D	8/15/12 21:50	KC	P2H0321
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.089	1	*8270D	8/15/12 21:50	KC	P2H0321
Fluoranthene	BRL	mg/kg dry	0.40	0.085	1	*8270D	8/15/12 21:50	KC	P2H0321
Fluorene	BRL	mg/kg dry	0.40	0.094	1	*8270D	8/15/12 21:50	KC	P2H0321
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.068	1	*8270D	8/15/12 21:50	KC	P2H0321
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.12	1	*8270D	8/15/12 21:50	KC	P2H0321
Hexachloroethane	BRL	mg/kg dry	0.40	0.13	1	*8270D	8/15/12 21:50	KC	P2H0321
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:50	KC	P2H0321
Isophorone	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
Naphthalene	BRL	mg/kg dry	0.40	0.16	1	*8270D	8/15/12 21:50	KC	P2H0321
Nitrobenzene	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.14	1	*8270D	8/15/12 21:50	KC	P2H0321
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.081	1	*8270D	8/15/12 21:50	KC	P2H0321
Pentachlorophenol	BRL	mg/kg dry	0.40	0.033	1	*8270D	8/15/12 21:50	KC	P2H0321
Phenanthrene	BRL	mg/kg dry	0.40	0.071	1	*8270D	8/15/12 21:50	KC	P2H0321
Phenol	BRL	mg/kg dry	0.40	0.15	1	*8270D	8/15/12 21:50	KC	P2H0321
Pyrene	BRL	mg/kg dry	0.40	0.11	1	*8270D	8/15/12 21:50	KC	P2H0321

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*83 %*	*37-131*
2-Fluorobiphenyl	*112 %*	*47-130*
2-Fluorophenol	*86 %*	*44-117*
Nitrobenzene-d5	*103 %*	*45-121*
Phenol-d5	*93 %*	*37-127*
Terphenyl-d14	*78 %*	*38-135*

Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00016	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00080	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00041	1	*8260B	8/14/12 16:18	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: B-1 (12)
Prism Sample ID: 2080294-07
Prism Work Order: 2080294
Time Collected: 08/10/12 15:25
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00041	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00051	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00073	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00028	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00095	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00055	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00022	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00078	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.000067	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00052	1	*8260B	8/14/12 16:18	CGP	P2H0246
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00035	1	*8260B	8/14/12 16:18	CGP	P2H0246
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	*8260B	8/14/12 16:18	CGP	P2H0246
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	8/14/12 16:18	CGP	P2H0246
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	8/14/12 16:18	CGP	P2H0246
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	8/14/12 16:18	CGP	P2H0246
Acetone	BRL	mg/kg dry	0.048	0.0026	1	*8260B	8/14/12 16:18	CGP	P2H0246
Benzene	BRL	mg/kg dry	0.0029	0.00029	1	*8260B	8/14/12 16:18	CGP	P2H0246
Bromobenzene	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	8/14/12 16:18	CGP	P2H0246
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00070	1	*8260B	8/14/12 16:18	CGP	P2H0246
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00022	1	*8260B	8/14/12 16:18	CGP	P2H0246
Bromoform	BRL	mg/kg dry	0.0048	0.00085	1	*8260B	8/14/12 16:18	CGP	P2H0246
Bromomethane	BRL	mg/kg dry	0.0096	0.0014	1	*8260B	8/14/12 16:18	CGP	P2H0246
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00026	1	*8260B	8/14/12 16:18	CGP	P2H0246
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00022	1	*8260B	8/14/12 16:18	CGP	P2H0246
Chloroethane	BRL	mg/kg dry	0.0096	0.0037	1	*8260B	8/14/12 16:18	CGP	P2H0246
Chloroform	BRL	mg/kg dry	0.0048	0.00020	1	*8260B	8/14/12 16:18	CGP	P2H0246
Chloromethane	BRL	mg/kg dry	0.0048	0.0024	1	*8260B	8/14/12 16:18	CGP	P2H0246
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00039	1	*8260B	8/14/12 16:18	CGP	P2H0246
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00024	1	*8260B	8/14/12 16:18	CGP	P2H0246
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00033	1	*8260B	8/14/12 16:18	CGP	P2H0246
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00052	1	*8260B	8/14/12 16:18	CGP	P2H0246
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	8/14/12 16:18	CGP	P2H0246
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	8/14/12 16:18	CGP	P2H0246
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00024	1	*8260B	8/14/12 16:18	CGP	P2H0246
m,p-Xylenes	BRL	mg/kg dry	0.0096	0.00062	1	*8260B	8/14/12 16:18	CGP	P2H0246
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00099	1	*8260B	8/14/12 16:18	CGP	P2H0246
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.096	0.0017	1	*8260B	8/14/12 16:18	CGP	P2H0246
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.0013	1	*8260B	8/14/12 16:18	CGP	P2H0246
Methylene Chloride	BRL	mg/kg dry	0.0048	0.00035	1	*8260B	8/14/12 16:18	CGP	P2H0246

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: B-1 (12)
Prism Sample ID: 2080294-07
Prism Work Order: 2080294
Time Collected: 08/10/12 15:25
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0096	0.00037	1	*8260B	8/14/12 16:18	CGP	P2H0246
Naphthalene	BRL	mg/kg dry	0.0096	0.00035	1	*8260B	8/14/12 16:18	CGP	P2H0246
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	8/14/12 16:18	CGP	P2H0246
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00027	1	*8260B	8/14/12 16:18	CGP	P2H0246
o-Xylene	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	8/14/12 16:18	CGP	P2H0246
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00019	1	*8260B	8/14/12 16:18	CGP	P2H0246
Styrene	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	8/14/12 16:18	CGP	P2H0246
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00025	1	*8260B	8/14/12 16:18	CGP	P2H0246
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00033	1	*8260B	8/14/12 16:18	CGP	P2H0246
Toluene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	8/14/12 16:18	CGP	P2H0246
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00056	1	*8260B	8/14/12 16:18	CGP	P2H0246
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	8/14/12 16:18	CGP	P2H0246
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00045	1	*8260B	8/14/12 16:18	CGP	P2H0246
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00039	1	*8260B	8/14/12 16:18	CGP	P2H0246
Vinyl acetate	BRL	mg/kg dry	0.024	0.0014	1	*8260B	8/14/12 16:18	CGP	P2H0246
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00062	1	*8260B	8/14/12 16:18	CGP	P2H0246
Xylenes, total	BRL	mg/kg dry	0.014	0.00090	1	*8260B	8/14/12 16:18	CGP	P2H0246

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*92 %*	*84-123*
Toluene-d8	*97 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	17	1.0	100	*MADEP VPH	8/14/12 16:02	ANG	P2H0245
C9-C12 Aliphatics	BRL	mg/kg dry	17	2.9	100	*MADEP VPH	8/14/12 16:02	ANG	P2H0245
C9-C10 Aromatics	BRL	mg/kg dry	17	0.15	100	*MADEP VPH	8/14/12 16:02	ANG	P2H0245

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*82 %*	*70-130*
2,5-Dibromotoluene (FID)	*80 %*	*70-130*

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Sample Matrix: Solid

Client Sample ID: SP-1
Prism Sample ID: 2080294-08
Prism Work Order: 2080294
Time Collected: 08/10/12 10:40
Time Submitted: 08/10/12 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**2300**	**mg/kg dry**	**91**	**13**	**10**	***8015C**	**8/14/12 15:50**	**JMV**	**P2H0236**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*68 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**20**	**mg/kg dry**	**5.8**	**1.3**	**50**	***8015C**	**8/14/12 0:19**	**ANG**	**P2H0240**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*134 %*		*50-137*	
General Chemistry Parameters									
% Solids	**76.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/13/12 13:30**	**JAB**	**P2H0241**

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0246 - 5035										
Blank (P2H0246-BLK1)				Prepared & Analyzed: 08/13/12						
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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Hart & Hickman (Charlotte)
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0246 - 5035										
Blank (P2H0246-BLK1)				Prepared & Analyzed: 08/13/12						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0538*		*mg/kg wet*	*0.05000*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0437*		*mg/kg wet*	*0.05000*		*87*	*84-123*			
Surrogate: Toluene-d8	*0.0523*		*mg/kg wet*	*0.05000*		*105*	*76-129*			
LCS (P2H0246-BS1)				Prepared & Analyzed: 08/13/12						
1,1-Dichloroethylene	0.0547	0.0050	mg/kg wet	0.05000		109	67-149			
Benzene	0.0524	0.0030	mg/kg wet	0.05000		105	74-127			
Chlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	74-118			
Toluene	0.0539	0.0050	mg/kg wet	0.05000		108	71-129			
Trichloroethylene	0.0497	0.0050	mg/kg wet	0.05000		99	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0482*		*mg/kg wet*	*0.05000*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0410*		*mg/kg wet*	*0.05000*		*82*	*84-123*			*SR*
Surrogate: Toluene-d8	*0.0490*		*mg/kg wet*	*0.05000*		*98*	*76-129*			

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0246 - 5035										
LCS Dup (P2H0246-BSD1)				Prepared & Analyzed: 08/13/12						
1,1-Dichloroethylene	0.0505	0.0050	mg/kg wet	0.05000		101	67-149	8	200	
Benzene	0.0497	0.0030	mg/kg wet	0.05000		99	74-127	5	200	
Chlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	74-118	4	200	
Toluene	0.0506	0.0050	mg/kg wet	0.05000		101	71-129	6	200	
Trichloroethylene	0.0472	0.0050	mg/kg wet	0.05000		94	75-133	5	200	
Surrogate: 4-Bromofluorobenzene	*0.0498*		*mg/kg wet*	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0400*		*mg/kg wet*	*0.05000*		*80*	*84-123*			*SR*
Surrogate: Toluene-d8	*0.0488*		*mg/kg wet*	*0.05000*		*98*	*76-129*			
Matrix Spike (P2H0246-MS1)		**Source: 2080294-06**		Prepared: 08/13/12 Analyzed: 08/14/12						
1,1-Dichloroethylene	0.0440	0.0060	mg/kg dry	0.06031	BRL	73	54-162			
Benzene	0.0437	0.0036	mg/kg dry	0.06031	BRL	72	60-135			
Chlorobenzene	0.0455	0.0060	mg/kg dry	0.06031	BRL	75	57-125			
Toluene	0.0446	0.0060	mg/kg dry	0.06031	BRL	74	57-135			
Trichloroethylene	0.0418	0.0060	mg/kg dry	0.06031	BRL	69	38-164			
Surrogate: 4-Bromofluorobenzene	*0.0641*		*mg/kg dry*	*0.06031*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0470*		*mg/kg dry*	*0.06031*		*78*	*84-123*			*SR*
Surrogate: Toluene-d8	*0.0618*		*mg/kg dry*	*0.06031*		*102*	*76-129*			
Matrix Spike Dup (P2H0246-MSD1)		**Source: 2080294-06**		Prepared: 08/13/12 Analyzed: 08/14/12						
1,1-Dichloroethylene	0.0400	0.0060	mg/kg dry	0.06031	BRL	66	54-162	10	22	
Benzene	0.0410	0.0036	mg/kg dry	0.06031	BRL	68	60-135	6	20	
Chlorobenzene	0.0441	0.0060	mg/kg dry	0.06031	BRL	73	57-125	3	14	
Toluene	0.0431	0.0060	mg/kg dry	0.06031	BRL	71	57-135	3	22	
Trichloroethylene	0.0390	0.0060	mg/kg dry	0.06031	BRL	65	38-164	7	18	
Surrogate: 4-Bromofluorobenzene	*0.0627*		*mg/kg dry*	*0.06031*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0448*		*mg/kg dry*	*0.06031*		*74*	*84-123*			*SR*
Surrogate: Toluene-d8	*0.0615*		*mg/kg dry*	*0.06031*		*102*	*76-129*			

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
Blank (P2H0321-BLK1)				Prepared & Analyzed: 08/15/12						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							

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Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
Blank (P2H0321-BLK1)				Prepared & Analyzed: 08/15/12						
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.32*		*mg/kg wet*	*3.333*		*70*	*37-131*			
Surrogate: 2-Fluorobiphenyl	*1.63*		*mg/kg wet*	*1.667*		*98*	*47-130*			
Surrogate: 2-Fluorophenol	*2.50*		*mg/kg wet*	*3.333*		*75*	*44-117*			
Surrogate: Nitrobenzene-d5	*1.44*		*mg/kg wet*	*1.667*		*87*	*45-121*			
Surrogate: Phenol-d5	*2.66*		*mg/kg wet*	*3.333*		*80*	*37-127*			
Surrogate: Terphenyl-d14	*1.03*		*mg/kg wet*	*1.667*		*62*	*38-135*			
LCS (P2H0321-BS1)				Prepared & Analyzed: 08/15/12						
1,2,4-Trichlorobenzene	1.21	0.33	mg/kg wet	1.667		72	54-110			
1,2-Dichlorobenzene	1.17	0.33	mg/kg wet	1.667		70	53-107			
1,3-Dichlorobenzene	1.19	0.33	mg/kg wet	1.667		71	52-108			
1,4-Dichlorobenzene	1.18	0.33	mg/kg wet	1.667		71	52-108			
2,4,6-Trichlorophenol	1.56	0.33	mg/kg wet	1.667		94	62-120			
2,4-Dichlorophenol	1.37	0.33	mg/kg wet	1.667		82	58-113			
2,4-Dimethylphenol	1.35	0.33	mg/kg wet	1.667		81	59-110			
2,4-Dinitrophenol	1.60	0.33	mg/kg wet	1.667		96	29-134			
2,4-Dinitrotoluene	1.62	0.33	mg/kg wet	1.667		97	63-137			
2,6-Dinitrotoluene	1.55	0.33	mg/kg wet	1.667		93	59-134			
2-Chloronaphthalene	1.51	0.33	mg/kg wet	1.667		91	41-147			
2-Chlorophenol	1.35	0.33	mg/kg wet	1.667		81	55-108			
2-Methylnaphthalene	1.41	0.33	mg/kg wet	1.667		85	57-116			
2-Methylphenol	1.40	0.33	mg/kg wet	1.667		84	56-111			
2-Nitrophenol	1.31	0.33	mg/kg wet	1.667		79	58-112			
3,3'-Dichlorobenzidine	1.34	0.33	mg/kg wet	1.667		81	51-161			
3/4-Methylphenol	1.34	0.33	mg/kg wet	1.667		81	56-111			
4,6-Dinitro-2-methylphenol	1.76	0.33	mg/kg wet	1.667		106	46-148			
4-Bromophenyl phenyl ether	1.47	0.33	mg/kg wet	1.667		88	58-137			
4-Chloro-3-methylphenol	1.55	0.33	mg/kg wet	1.667		93	60-118			
4-Chloroaniline	1.32	0.33	mg/kg wet	1.667		79	53-144			
4-Chlorophenyl phenyl ether	1.36	0.33	mg/kg wet	1.667		81	59-131			
4-Nitrophenol	1.85	0.33	mg/kg wet	1.667		111	48-148			

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
LCS (P2H0321-BS1)				Prepared & Analyzed: 08/15/12						
Acenaphthene	1.54	0.33	mg/kg wet	1.667		92	62-118			
Acenaphthylene	1.34	0.33	mg/kg wet	1.667		80	64-116			
Anthracene	1.60	0.33	mg/kg wet	1.667		96	71-132			
Azobenzene	1.53	0.33	mg/kg wet	1.667		92	56-125			
Benzo(a)anthracene	1.39	0.33	mg/kg wet	1.667		84	71-129			
Benzo(a)pyrene	1.47	0.33	mg/kg wet	1.667		88	74-129			
Benzo(b)fluoranthene	1.47	0.33	mg/kg wet	1.667		88	63-138			
Benzo(g,h,i)perylene	1.54	0.33	mg/kg wet	1.667		93	41-154			
Benzo(k)fluoranthene	1.40	0.33	mg/kg wet	1.667		84	62-145			
Benzoic Acid	0.636	0.33	mg/kg wet	1.667		38	10-83			
Benzyl alcohol	1.31	0.33	mg/kg wet	1.667		79	55-112			
bis(2-Chloroethoxy)methane	1.30	0.33	mg/kg wet	1.667		78	52-118			
Bis(2-Chloroethyl)ether	1.27	0.33	mg/kg wet	1.667		76	50-116			
Bis(2-chloroisopropyl)ether	1.35	0.33	mg/kg wet	1.667		81	48-119			
Bis(2-Ethylhexyl)phthalate	1.46	0.33	mg/kg wet	1.667		88	62-135			
Butyl benzyl phthalate	1.43	0.33	mg/kg wet	1.667		86	62-133			
Chrysene	1.41	0.33	mg/kg wet	1.667		85	72-129			
Dibenzo(a,h)anthracene	1.49	0.33	mg/kg wet	1.667		90	41-158			
Dibenzofuran	1.34	0.33	mg/kg wet	1.667		80	64-115			
Diethyl phthalate	1.37	0.33	mg/kg wet	1.667		82	73-120			
Dimethyl phthalate	1.44	0.33	mg/kg wet	1.667		87	71-115			
Di-n-butyl phthalate	1.53	0.33	mg/kg wet	1.667		92	68-127			
Di-n-octyl phthalate	1.44	0.33	mg/kg wet	1.667		86	53-150			
Fluoranthene	1.51	0.33	mg/kg wet	1.667		91	64-136			
Fluorene	1.29	0.33	mg/kg wet	1.667		77	67-120			
Hexachlorobenzene	1.29	0.33	mg/kg wet	1.667		77	63-134			
Hexachlorobutadiene	1.20	0.33	mg/kg wet	1.667		72	55-112			
Hexachlorocyclopentadiene	1.21	0.33	mg/kg wet	1.667		73	43-135			
Hexachloroethane	1.14	0.33	mg/kg wet	1.667		68	49-113			
Indeno(1,2,3-cd)pyrene	1.56	0.33	mg/kg wet	1.667		93	40-160			
Isophorone	1.34	0.33	mg/kg wet	1.667		80	55-118			
Naphthalene	1.33	0.33	mg/kg wet	1.667		80	62-111			
Nitrobenzene	1.51	0.33	mg/kg wet	1.667		91	50-116			
N-Nitroso-di-n-propylamine	1.36	0.33	mg/kg wet	1.667		81	53-113			
N-Nitrosodiphenylamine	1.83	0.33	mg/kg wet	1.667		110	76-144			
Pentachlorophenol	1.76	0.33	mg/kg wet	1.667		106	36-145			
Phenanthrene	1.57	0.33	mg/kg wet	1.667		94	72-123			
Phenol	1.32	0.33	mg/kg wet	1.667		79	56-108			
Pyrene	1.38	0.33	mg/kg wet	1.667		83	51-141			
Surrogate: 2,4,6-Tribromophenol	*2.52*		*mg/kg wet*	*3.333*		*75*	*37-131*			
Surrogate: 2-Fluorobiphenyl	*1.66*		*mg/kg wet*	*1.667*		*100*	*47-130*			
Surrogate: 2-Fluorophenol	*2.61*		*mg/kg wet*	*3.333*		*78*	*44-117*			
Surrogate: Nitrobenzene-d5	*1.49*		*mg/kg wet*	*1.667*		*89*	*45-121*			
Surrogate: Phenol-d5	*2.59*		*mg/kg wet*	*3.333*		*78*	*37-127*			
Surrogate: Terphenyl-d14	*1.21*		*mg/kg wet*	*1.667*		*73*	*38-135*			

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
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Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
LCS Dup (P2H0321-BSD1)				Prepared & Analyzed: 08/15/12						
1,2,4-Trichlorobenzene	1.32	0.33	mg/kg wet	1.667		79	54-110	9	200	
1,2-Dichlorobenzene	1.33	0.33	mg/kg wet	1.667		80	53-107	12	200	
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.667		79	52-108	10	200	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.667		79	52-108	11	200	
2,4,6-Trichlorophenol	1.71	0.33	mg/kg wet	1.667		103	62-120	9	200	
2,4-Dichlorophenol	1.52	0.33	mg/kg wet	1.667		91	58-113	11	200	
2,4-Dimethylphenol	1.52	0.33	mg/kg wet	1.667		91	59-110	12	200	
2,4-Dinitrophenol	1.70	0.33	mg/kg wet	1.667		102	29-134	6	200	
2,4-Dinitrotoluene	1.84	0.33	mg/kg wet	1.667		110	63-137	12	200	
2,6-Dinitrotoluene	1.78	0.33	mg/kg wet	1.667		107	59-134	13	200	
2-Chloronaphthalene	1.64	0.33	mg/kg wet	1.667		98	41-147	8	200	
2-Chlorophenol	1.52	0.33	mg/kg wet	1.667		91	55-108	11	200	
2-Methylnaphthalene	1.59	0.33	mg/kg wet	1.667		95	57-116	12	200	
2-Methylphenol	1.59	0.33	mg/kg wet	1.667		95	56-111	13	200	
2-Nitrophenol	1.47	0.33	mg/kg wet	1.667		88	58-112	11	200	
3,3'-Dichlorobenzidine	1.75	0.33	mg/kg wet	1.667		105	51-161	26	200	
3/4-Methylphenol	1.55	0.33	mg/kg wet	1.667		93	56-111	14	200	
4,6-Dinitro-2-methylphenol	1.98	0.33	mg/kg wet	1.667		119	46-148	11	200	
4-Bromophenyl phenyl ether	1.70	0.33	mg/kg wet	1.667		102	58-137	14	200	
4-Chloro-3-methylphenol	1.76	0.33	mg/kg wet	1.667		106	60-118	12	200	
4-Chloroaniline	1.47	0.33	mg/kg wet	1.667		88	53-144	11	200	
4-Chlorophenyl phenyl ether	1.50	0.33	mg/kg wet	1.667		90	59-131	10	200	
4-Nitrophenol	2.03	0.33	mg/kg wet	1.667		122	48-148	9	200	
Acenaphthene	1.77	0.33	mg/kg wet	1.667		106	62-118	14	200	
Acenaphthylene	1.48	0.33	mg/kg wet	1.667		89	64-116	10	200	
Anthracene	1.91	0.33	mg/kg wet	1.667		114	71-132	18	200	
Azobenzene	1.75	0.33	mg/kg wet	1.667		105	56-125	13	200	
Benzo(a)anthracene	1.69	0.33	mg/kg wet	1.667		101	71-129	19	200	
Benzo(a)pyrene	1.76	0.33	mg/kg wet	1.667		106	74-129	18	200	
Benzo(b)fluoranthene	1.79	0.33	mg/kg wet	1.667		108	63-138	20	200	
Benzo(g,h,i)perylene	1.84	0.33	mg/kg wet	1.667		110	41-154	17	200	
Benzo(k)fluoranthene	1.67	0.33	mg/kg wet	1.667		100	62-145	18	200	
Benzoic Acid	0.764	0.33	mg/kg wet	1.667		46	10-83	18	200	
Benzyl alcohol	1.51	0.33	mg/kg wet	1.667		90	55-112	14	200	
bis(2-Chloroethoxy)methane	1.45	0.33	mg/kg wet	1.667		87	52-118	11	200	
Bis(2-Chloroethyl)ether	1.44	0.33	mg/kg wet	1.667		86	50-116	13	200	
Bis(2-chloroisopropyl)ether	1.52	0.33	mg/kg wet	1.667		91	48-119	11	200	
Bis(2-Ethylhexyl)phthalate	1.85	0.33	mg/kg wet	1.667		111	62-135	23	200	
Butyl benzyl phthalate	1.87	0.33	mg/kg wet	1.667		112	62-133	26	200	
Chrysene	1.71	0.33	mg/kg wet	1.667		102	72-129	19	200	
Dibenzo(a,h)anthracene	1.78	0.33	mg/kg wet	1.667		107	41-158	18	200	
Dibenzofuran	1.48	0.33	mg/kg wet	1.667		89	64-115	10	200	
Diethyl phthalate	1.60	0.33	mg/kg wet	1.667		96	73-120	16	200	
Dimethyl phthalate	1.64	0.33	mg/kg wet	1.667		99	71-115	13	200	
Di-n-butyl phthalate	1.92	0.33	mg/kg wet	1.667		115	68-127	22	200	
Di-n-octyl phthalate	1.81	0.33	mg/kg wet	1.667		109	53-150	23	200	

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Hart & Hickman (Charlotte)
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Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
LCS Dup (P2H0321-BSD1)				Prepared & Analyzed: 08/15/12						
Fluoranthene	1.76	0.33	mg/kg wet	1.667		105	64-136	15	200	
Fluorene	1.45	0.33	mg/kg wet	1.667		87	67-120	12	200	
Hexachlorobenzene	1.52	0.33	mg/kg wet	1.667		91	63-134	16	200	
Hexachlorobutadiene	1.29	0.33	mg/kg wet	1.667		77	55-112	8	200	
Hexachlorocyclopentadiene	1.29	0.33	mg/kg wet	1.667		77	43-135	6	200	
Hexachloroethane	1.27	0.33	mg/kg wet	1.667		76	49-113	11	200	
Indeno(1,2,3-cd)pyrene	1.88	0.33	mg/kg wet	1.667		113	40-160	19	200	
Isophorone	1.50	0.33	mg/kg wet	1.667		90	55-118	11	200	
Naphthalene	1.47	0.33	mg/kg wet	1.667		88	62-111	10	200	
Nitrobenzene	1.65	0.33	mg/kg wet	1.667		99	50-116	9	200	
N-Nitroso-di-n-propylamine	1.57	0.33	mg/kg wet	1.667		94	53-113	15	200	
N-Nitrosodiphenylamine	2.10	0.33	mg/kg wet	1.667		126	76-144	14	200	
Pentachlorophenol	2.02	0.33	mg/kg wet	1.667		121	36-145	14	200	
Phenanthrene	1.86	0.33	mg/kg wet	1.667		112	72-123	17	200	
Phenol	1.51	0.33	mg/kg wet	1.667		90	56-108	13	200	
Pyrene	1.84	0.33	mg/kg wet	1.667		110	51-141	28	200	
Surrogate: 2,4,6-Tribromophenol	*2.84*		*mg/kg wet*	*3.333*		*85*	*37-131*			
Surrogate: 2-Fluorobiphenyl	*1.79*		*mg/kg wet*	*1.667*		*107*	*47-130*			
Surrogate: 2-Fluorophenol	*2.88*		*mg/kg wet*	*3.333*		*86*	*44-117*			
Surrogate: Nitrobenzene-d5	*1.59*		*mg/kg wet*	*1.667*		*95*	*45-121*			
Surrogate: Phenol-d5	*2.93*		*mg/kg wet*	*3.333*		*88*	*37-127*			
Surrogate: Terphenyl-d14	*1.55*		*mg/kg wet*	*1.667*		*93*	*38-135*			
Matrix Spike (P2H0321-MS1)		**Source: 2080294-03**		Prepared: 08/15/12 Analyzed: 08/16/12						
1,2,4-Trichlorobenzene	1.54	0.40	mg/kg dry	2.042	BRL	75	25-104			
1,2-Dichlorobenzene	1.48	0.40	mg/kg dry	2.042	BRL	72	22-103			
1,3-Dichlorobenzene	1.44	0.40	mg/kg dry	2.042	BRL	71	18-101			
1,4-Dichlorobenzene	1.46	0.40	mg/kg dry	2.042	BRL	71	14-108			
2,4,6-Trichlorophenol	2.04	0.40	mg/kg dry	2.042	BRL	100	44-115			
2,4-Dichlorophenol	1.84	0.40	mg/kg dry	2.042	BRL	90	26-120			
2,4-Dimethylphenol	1.84	0.40	mg/kg dry	2.042	BRL	90	33-113			
2,4-Dinitrophenol	2.20	0.40	mg/kg dry	2.042	BRL	108	14-148			
2,4-Dinitrotoluene	2.13	0.40	mg/kg dry	2.042	BRL	105	49-134			
2,6-Dinitrotoluene	2.08	0.40	mg/kg dry	2.042	BRL	102	44-131			
2-Chloronaphthalene	1.94	0.40	mg/kg dry	2.042	BRL	95	38-112			
2-Chlorophenol	1.81	0.40	mg/kg dry	2.042	BRL	89	26-108			
2-Methylnaphthalene	1.93	0.40	mg/kg dry	2.042	BRL	94	12-128			
2-Methylphenol	1.91	0.40	mg/kg dry	2.042	BRL	94	26-116			
2-Nitrophenol	1.80	0.40	mg/kg dry	2.042	BRL	88	20-119			
3,3'-Dichlorobenzidine	1.99	0.40	mg/kg dry	2.042	BRL	97	10-191			
3/4-Methylphenol	1.87	0.40	mg/kg dry	2.042	BRL	92	28-116			
4,6-Dinitro-2-methylphenol	2.41	0.40	mg/kg dry	2.042	BRL	118	30-148			
4-Bromophenyl phenyl ether	1.98	0.40	mg/kg dry	2.042	BRL	97	43-126			
4-Chloro-3-methylphenol	2.19	0.40	mg/kg dry	2.042	BRL	107	41-120			
4-Chloroaniline	1.80	0.40	mg/kg dry	2.042	BRL	88	35-115			
4-Chlorophenyl phenyl ether	1.79	0.40	mg/kg dry	2.042	BRL	88	45-123			
4-Nitrophenol	2.33	0.40	mg/kg dry	2.042	BRL	114	33-136			

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Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
Matrix Spike (P2H0321-MS1)		**Source: 2080294-03**		Prepared: 08/15/12	Analyzed: 08/16/12					
Acenaphthene	2.03	0.40	mg/kg dry	2.042	BRL	100	46-115			
Acenaphthylene	1.74	0.40	mg/kg dry	2.042	BRL	85	40-125			
Anthracene	2.18	0.40	mg/kg dry	2.042	BRL	107	56-127			
Azobenzene	2.12	0.40	mg/kg dry	2.042	BRL	104	49-123			
Benzo(a)anthracene	1.96	0.40	mg/kg dry	2.042	BRL	96	50-134			
Benzo(a)pyrene	2.04	0.40	mg/kg dry	2.042	BRL	100	59-129			
Benzo(b)fluoranthene	2.01	0.40	mg/kg dry	2.042	BRL	98	46-141			
Benzo(g,h,i)perylene	2.24	0.40	mg/kg dry	2.042	BRL	110	47-136			
Benzo(k)fluoranthene	1.90	0.40	mg/kg dry	2.042	BRL	93	36-151			
Benzoic Acid	1.51	0.40	mg/kg dry	2.042	BRL	74	10-122			
Benzyl alcohol	1.82	0.40	mg/kg dry	2.042	BRL	89	29-112			
bis(2-Chloroethoxy)methane	1.76	0.40	mg/kg dry	2.042	BRL	86	31-119			
Bis(2-Chloroethyl)ether	1.75	0.40	mg/kg dry	2.042	BRL	86	23-111			
Bis(2-chloroisopropyl)ether	1.88	0.40	mg/kg dry	2.042	BRL	92	22-109			
Bis(2-Ethylhexyl)phthalate	2.09	0.40	mg/kg dry	2.042	BRL	102	45-153			
Butyl benzyl phthalate	2.11	0.40	mg/kg dry	2.042	BRL	103	43-156			
Chrysene	1.96	0.40	mg/kg dry	2.042	BRL	96	46-140			
Dibenzo(a,h)anthracene	2.18	0.40	mg/kg dry	2.042	BRL	107	43-141			
Dibenzofuran	1.73	0.40	mg/kg dry	2.042	BRL	85	45-121			
Diethyl phthalate	1.89	0.40	mg/kg dry	2.042	BRL	93	53-128			
Dimethyl phthalate	1.95	0.40	mg/kg dry	2.042	BRL	96	54-123			
Di-n-butyl phthalate	2.11	0.40	mg/kg dry	2.042	BRL	103	44-137			
Di-n-octyl phthalate	1.93	0.40	mg/kg dry	2.042	BRL	94	45-151			
Fluoranthene	1.92	0.40	mg/kg dry	2.042	BRL	94	37-140			
Fluorene	1.66	0.40	mg/kg dry	2.042	BRL	81	49-119			
Hexachlorobenzene	1.75	0.40	mg/kg dry	2.042	BRL	86	47-128			
Hexachlorobutadiene	1.48	0.40	mg/kg dry	2.042	BRL	73	24-107			
Hexachlorocyclopentadiene	1.52	0.40	mg/kg dry	2.042	BRL	74	20-121			
Hexachloroethane	1.36	0.40	mg/kg dry	2.042	BRL	67	17-102			
Indeno(1,2,3-cd)pyrene	2.33	0.40	mg/kg dry	2.042	BRL	114	27-156			
Isophorone	1.88	0.40	mg/kg dry	2.042	BRL	92	22-130			
Naphthalene	1.73	0.40	mg/kg dry	2.042	BRL	85	27-111			
Nitrobenzene	2.00	0.40	mg/kg dry	2.042	BRL	98	23-120			
N-Nitroso-di-n-propylamine	1.89	0.40	mg/kg dry	2.042	BRL	93	27-120			
N-Nitrosodiphenylamine	2.37	0.40	mg/kg dry	2.042	BRL	116	46-153			
Pentachlorophenol	2.34	0.40	mg/kg dry	2.042	BRL	115	36-155			
Phenanthrene	2.13	0.40	mg/kg dry	2.042	BRL	104	48-137			
Phenol	1.84	0.40	mg/kg dry	2.042	BRL	90	23-115			
Pyrene	2.11	0.40	mg/kg dry	2.042	BRL	104	43-146			
Surrogate: 2,4,6-Tribromophenol	*3.24*		*mg/kg dry*	*4.085*		*79*	*37-131*			
Surrogate: 2-Fluorobiphenyl	*2.10*		*mg/kg dry*	*2.042*		*103*	*47-130*			
Surrogate: 2-Fluorophenol	*3.46*		*mg/kg dry*	*4.085*		*85*	*44-117*			
Surrogate: Nitrobenzene-d5	*1.97*		*mg/kg dry*	*2.042*		*96*	*45-121*			
Surrogate: Phenol-d5	*3.54*		*mg/kg dry*	*4.085*		*87*	*37-127*			
Surrogate: Terphenyl-d14	*1.83*		*mg/kg dry*	*2.042*		*89*	*38-135*			

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Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
Matrix Spike Dup (P2H0321-MSD1)		**Source: 2080294-03**		Prepared: 08/15/12	Analyzed: 08/16/12					
1,2,4-Trichlorobenzene	1.49	0.40	mg/kg dry	2.042	BRL	73	25-104	4	46	
1,2-Dichlorobenzene	1.41	0.40	mg/kg dry	2.042	BRL	69	22-103	5	49	
1,3-Dichlorobenzene	1.38	0.40	mg/kg dry	2.042	BRL	68	18-101	4	55	
1,4-Dichlorobenzene	1.40	0.40	mg/kg dry	2.042	BRL	68	14-108	4	50	
2,4,6-Trichlorophenol	2.11	0.40	mg/kg dry	2.042	BRL	103	44-115	3	35	
2,4-Dichlorophenol	1.88	0.40	mg/kg dry	2.042	BRL	92	26-120	2	45	
2,4-Dimethylphenol	1.86	0.40	mg/kg dry	2.042	BRL	91	33-113	0.8	47	
2,4-Dinitrophenol	2.30	0.40	mg/kg dry	2.042	BRL	113	14-148	5	39	
2,4-Dinitrotoluene	2.21	0.40	mg/kg dry	2.042	BRL	108	49-134	3	28	
2,6-Dinitrotoluene	2.19	0.40	mg/kg dry	2.042	BRL	107	44-131	5	31	
2-Chloronaphthalene	1.93	0.40	mg/kg dry	2.042	BRL	95	38-112	0.1	37	
2-Chlorophenol	1.82	0.40	mg/kg dry	2.042	BRL	89	26-108	0.5	51	
2-Methylnaphthalene	1.92	0.40	mg/kg dry	2.042	BRL	94	12-128	0.3	48	
2-Methylphenol	1.94	0.40	mg/kg dry	2.042	BRL	95	26-116	1	48	
2-Nitrophenol	1.80	0.40	mg/kg dry	2.042	BRL	88	20-119	0.09	44	
3,3'-Dichlorobenzidine	1.82	0.40	mg/kg dry	2.042	BRL	89	10-191	9	35	
3/4-Methylphenol	1.90	0.40	mg/kg dry	2.042	BRL	93	28-116	2	45	
4,6-Dinitro-2-methylphenol	2.53	0.40	mg/kg dry	2.042	BRL	124	30-148	5	27	
4-Bromophenyl phenyl ether	2.07	0.40	mg/kg dry	2.042	BRL	101	43-126	4	26	
4-Chloro-3-methylphenol	2.23	0.40	mg/kg dry	2.042	BRL	109	41-120	2	35	
4-Chloroaniline	1.79	0.40	mg/kg dry	2.042	BRL	88	35-115	0.4	41	
4-Chlorophenyl phenyl ether	1.88	0.40	mg/kg dry	2.042	BRL	92	45-123	5	30	
4-Nitrophenol	2.41	0.40	mg/kg dry	2.042	BRL	118	33-136	3	31	
Acenaphthene	2.11	0.40	mg/kg dry	2.042	BRL	104	46-115	4	35	
Acenaphthylene	1.80	0.40	mg/kg dry	2.042	BRL	88	40-125	3	35	
Anthracene	2.28	0.40	mg/kg dry	2.042	BRL	111	56-127	4	26	
Azobenzene	2.28	0.40	mg/kg dry	2.042	BRL	112	49-123	7	30	
Benzo(a)anthracene	2.01	0.40	mg/kg dry	2.042	BRL	98	50-134	2	25	
Benzo(a)pyrene	2.11	0.40	mg/kg dry	2.042	BRL	103	59-129	3	22	
Benzo(b)fluoranthene	2.14	0.40	mg/kg dry	2.042	BRL	105	46-141	6	33	
Benzo(g,h,i)perylene	2.00	0.40	mg/kg dry	2.042	BRL	98	47-136	11	26	
Benzo(k)fluoranthene	2.11	0.40	mg/kg dry	2.042	BRL	103	36-151	11	38	
Benzoic Acid	1.48	0.40	mg/kg dry	2.042	BRL	72	10-122	2	60	
Benzyl alcohol	1.82	0.40	mg/kg dry	2.042	BRL	89	29-112	0.1	43	
bis(2-Chloroethoxy)methane	1.77	0.40	mg/kg dry	2.042	BRL	87	31-119	0.5	46	
Bis(2-Chloroethyl)ether	1.76	0.40	mg/kg dry	2.042	BRL	86	23-111	0.3	54	
Bis(2-chloroisopropyl)ether	1.86	0.40	mg/kg dry	2.042	BRL	91	22-109	1	50	
Bis(2-Ethylhexyl)phthalate	2.08	0.40	mg/kg dry	2.042	BRL	102	45-153	0.5	26	
Butyl benzyl phthalate	2.27	0.40	mg/kg dry	2.042	BRL	111	43-156	7	22	
Chrysene	2.01	0.40	mg/kg dry	2.042	BRL	98	46-140	3	32	
Dibenzo(a,h)anthracene	2.01	0.40	mg/kg dry	2.042	BRL	98	43-141	8	25	
Dibenzofuran	1.78	0.40	mg/kg dry	2.042	BRL	87	45-121	3	36	
Diethyl phthalate	1.95	0.40	mg/kg dry	2.042	BRL	95	53-128	3	20	
Dimethyl phthalate	2.01	0.40	mg/kg dry	2.042	BRL	99	54-123	3	24	
Di-n-butyl phthalate	2.16	0.40	mg/kg dry	2.042	BRL	106	44-137	2	33	
Di-n-octyl phthalate	2.01	0.40	mg/kg dry	2.042	BRL	99	45-151	4	25	

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0321 - 3550C MS										
Matrix Spike Dup (P2H0321-MSD1)		**Source: 2080294-03**		Prepared: 08/15/12	Analyzed: 08/16/12					
Fluoranthene	1.85	0.40	mg/kg dry	2.042	BRL	91	37-140	4	35	
Fluorene	1.77	0.40	mg/kg dry	2.042	BRL	87	49-119	6	31	
Hexachlorobenzene	1.84	0.40	mg/kg dry	2.042	BRL	90	47-128	5	23	
Hexachlorobutadiene	1.44	0.40	mg/kg dry	2.042	BRL	70	24-107	3	50	
Hexachlorocyclopentadiene	1.53	0.40	mg/kg dry	2.042	BRL	75	20-121	1	50	
Hexachloroethane	1.30	0.40	mg/kg dry	2.042	BRL	64	17-102	4	50	
Indeno(1,2,3-cd)pyrene	2.01	0.40	mg/kg dry	2.042	BRL	98	27-156	15	35	
Isophorone	1.86	0.40	mg/kg dry	2.042	BRL	91	22-130	0.8	37	
Naphthalene	1.75	0.40	mg/kg dry	2.042	BRL	86	27-111	1	51	
Nitrobenzene	1.99	0.40	mg/kg dry	2.042	BRL	98	23-120	0.3	43	
N-Nitroso-di-n-propylamine	1.93	0.40	mg/kg dry	2.042	BRL	94	27-120	2	47	
N-Nitrosodiphenylamine	2.65	0.40	mg/kg dry	2.042	BRL	130	46-153	11	29	
Pentachlorophenol	2.37	0.40	mg/kg dry	2.042	BRL	116	36-155	1	31	
Phenanthrene	2.20	0.40	mg/kg dry	2.042	BRL	108	48-137	3	32	
Phenol	1.85	0.40	mg/kg dry	2.042	BRL	91	23-115	0.8	56	
Pyrene	2.56	0.40	mg/kg dry	2.042	BRL	125	43-146	19	31	
Surrogate: 2,4,6-Tribromophenol	*3.33*		*mg/kg dry*	*4.085*		*81*	*37-131*			
Surrogate: 2-Fluorobiphenyl	*2.21*		*mg/kg dry*	*2.042*		*108*	*47-130*			
Surrogate: 2-Fluorophenol	*3.55*		*mg/kg dry*	*4.085*		*87*	*44-117*			
Surrogate: Nitrobenzene-d5	*2.02*		*mg/kg dry*	*2.042*		*99*	*45-121*			
Surrogate: Phenol-d5	*3.65*		*mg/kg dry*	*4.085*		*89*	*37-127*			
Surrogate: Terphenyl-d14	*2.14*		*mg/kg dry*	*2.042*		*105*	*38-135*			

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Hart & Hickman (Charlotte)
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Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0245 - MADEP VPH (S)										
Blank (P2H0245-BLK1)				Prepared: 08/13/12		Analyzed: 08/14/12				
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*8.71*		*mg/kg wet*	*10.67*		*82*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*8.39*		*mg/kg wet*	*10.67*		*79*	*70-130*			
LCS (P2H0245-BS1)				Prepared: 08/13/12		Analyzed: 08/14/12				
C5-C8 Aliphatics	33.9	5.0	mg/kg wet	32.00		106	70-130			
C9-C10 Aromatics	11.7	5.0	mg/kg wet	10.67		110	70-130			
C9-C12 Aliphatic	36.5	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*9.65*		*mg/kg wet*	*10.67*		*90*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.22*		*mg/kg wet*	*10.67*		*86*	*70-130*			
LCS Dup (P2H0245-BSD1)				Prepared: 08/13/12		Analyzed: 08/14/12				
C5-C8 Aliphatics	31.6	5.0	mg/kg wet	32.00		99	70-130	7	200	
C9-C10 Aromatics	11.1	5.0	mg/kg wet	10.67		104	70-130	5	200	
C9-C12 Aliphatic	35.3	5.0	mg/kg wet	32.00		110	70-130	3	200	
Surrogate: 2,5-Dibromotoluene (PID)	*9.42*		*mg/kg wet*	*10.67*		*88*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.00*		*mg/kg wet*	*10.67*		*84*	*70-130*			

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Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0240 - 5035										
Blank (P2H0240-BLK1)				Prepared & Analyzed: 08/13/12						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.45*		*mg/kg wet*	*5.000*		*109*	*50-137*			
LCS (P2H0240-BS1)				Prepared & Analyzed: 08/13/12						
Gasoline Range Organics	54.0	5.0	mg/kg wet	50.00		108	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.55*		*mg/kg wet*	*5.000*		*111*	*50-137*			
LCS Dup (P2H0240-BSD1)				Prepared & Analyzed: 08/13/12						
Gasoline Range Organics	67.0	5.0	mg/kg wet	50.00		134	41-138	21	200	
Surrogate: a,a,a-Trifluorotoluene	*5.95*		*mg/kg wet*	*5.000*		*119*	*50-137*			

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Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0237 - MADEP EPH (S)										
Blank (P2H0237-BLK1)				Prepared & Analyzed: 08/13/12						
C9-C18 Aliphatics	BRL	9.9	mg/kg wet							
C19-C36 Aliphatics	BRL	9.9	mg/kg wet							
C11-C22 Aromatics	BRL	9.9	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.63*		*mg/kg wet*	*1.986*		*82*	*40-140*			
Surrogate: o-Terphenyl	*1.48*		*mg/kg wet*	*1.986*		*74*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.12*		*mg/kg wet*	*3.972*		*79*	*40-140*			
Surrogate: 2-Bromonaphthalene	*2.78*		*mg/kg wet*	*3.972*		*70*	*40-140*			
LCS (P2H0237-BS1)				Prepared & Analyzed: 08/13/12						
C9-C18 Aliphatics	35.0	10	mg/kg wet	59.76		59	40-140			
C19-C36 Aliphatics	64.0	10	mg/kg wet	79.68		80	40-140			
C11-C22 Aromatics	105	10	mg/kg wet	169.3		62	40-140			
Surrogate: 1-Chlorooctadecane	*1.54*		*mg/kg wet*	*1.992*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.57*		*mg/kg wet*	*1.992*		*79*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.31*		*mg/kg wet*	*3.984*		*83*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.11*		*mg/kg wet*	*3.984*		*78*	*40-140*			
LCS Dup (P2H0237-BSD1)				Prepared & Analyzed: 08/13/12						
C9-C18 Aliphatics	39.1	9.9	mg/kg wet	59.35		66	40-140	11	50	
C19-C36 Aliphatics	68.2	9.9	mg/kg wet	79.13		86	40-140	6	50	
C11-C22 Aromatics	108	9.9	mg/kg wet	168.2		64	40-140	3	50	
Surrogate: 1-Chlorooctadecane	*1.91*		*mg/kg wet*	*1.978*		*96*	*40-140*			
Surrogate: o-Terphenyl	*1.62*		*mg/kg wet*	*1.978*		*82*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.29*		*mg/kg wet*	*3.956*		*83*	*40-140*			
Surrogate: 2-Bromonaphthalene	*2.96*		*mg/kg wet*	*3.956*		*75*	*40-140*			
Matrix Spike (P2H0237-MS1)		**Source: 2080294-03**		Prepared & Analyzed: 08/13/12						
C9-C18 Aliphatics	46.9	12	mg/kg dry	72.95	BRL	64	40-140			
C19-C36 Aliphatics	83.0	12	mg/kg dry	97.26	BRL	85	40-140			
C11-C22 Aromatics	132	12	mg/kg dry	206.7	BRL	64	40-140			
Surrogate: 1-Chlorooctadecane	*2.02*		*mg/kg dry*	*2.432*		*83*	*40-140*			
Surrogate: o-Terphenyl	*1.91*		*mg/kg dry*	*2.432*		*78*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.96*		*mg/kg dry*	*4.863*		*81*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.69*		*mg/kg dry*	*4.863*		*76*	*40-140*			

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
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Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0237 - MADEP EPH (S)										
Matrix Spike Dup (P2H0237-MSD1)		**Source: 2080294-03**		Prepared & Analyzed: 08/13/12						
C9-C18 Aliphatics	41.1	12	mg/kg dry	72.87	BRL	56	40-140	13	50	
C19-C36 Aliphatics	82.7	12	mg/kg dry	97.16	BRL	85	40-140	0.5	50	
C11-C22 Aromatics	115	12	mg/kg dry	206.5	BRL	56	40-140	14	50	
Surrogate: 1-Chlorooctadecane	*2.06*		*mg/kg dry*	*2.429*		*85*	*40-140*			
Surrogate: o-Terphenyl	*1.74*		*mg/kg dry*	*2.429*		*71*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.47*		*mg/kg dry*	*4.858*		*71*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.06*		*mg/kg dry*	*4.858*		*63*	*40-140*			

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Hart & Hickman (Charlotte)
Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0236 - 3545A										
Blank (P2H0236-BLK1)				Prepared: 08/13/12		Analyzed: 08/14/12				
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.21*		*mg/kg wet*	*1.599*		*76*	*49-124*			
LCS (P2H0236-BS1)				Prepared: 08/13/12		Analyzed: 08/14/12				
Diesel Range Organics	72.3	7.0	mg/kg wet	80.10		90	55-109			
Surrogate: o-Terphenyl	*1.56*		*mg/kg wet*	*1.602*		*98*	*49-124*			
LCS Dup (P2H0236-BSD1)				Prepared: 08/13/12		Analyzed: 08/14/12				
Diesel Range Organics	71.0	7.0	mg/kg wet	80.13		89	55-109	2	200	
Surrogate: o-Terphenyl	*1.52*		*mg/kg wet*	*1.603*		*95*	*49-124*			

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Attn: Shannon Cottrill
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: PPA-021

Prism Work Order: 2080294
Time Submitted: 8/10/2012 4:45:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H0241 - NO PREP										
Blank (P2H0241-BLK1)				Prepared & Analyzed: 08/13/12						
% Solids	99.9	0.100	% by Weight							
Duplicate (P2H0241-DUP2)		**Source: 2080294-08**		Prepared & Analyzed: 08/13/12						
% Solids	78.1	0.100	% by Weight		76.6			2	20	

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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date/Time
2080294-01	P2H0236	25.01 g	1 mL	08/13/12 9:00
2080294-02	P2H0236	25.01 g	1 mL	08/13/12 9:00
2080294-08	P2H0236	25.02 g	1 mL	08/13/12 9:00

Prep Method: MADEP EPH (S)

Lab Number	Batch	Initial	Final	Date/Time
2080294-03	P2H0237	10.04 g	2 mL	08/13/12 12:00
2080294-03	P2H0237	10.04 g	2 mL	08/13/12 12:00
2080294-04	P2H0237	10.03 g	2 mL	08/13/12 12:00
2080294-04	P2H0237	10.03 g	2 mL	08/13/12 12:00
2080294-05	P2H0237	10.12 g	2 mL	08/13/12 12:00
2080294-05	P2H0237	10.12 g	2 mL	08/13/12 12:00
2080294-06	P2H0237	10.09 g	2 mL	08/13/12 12:00
2080294-06	P2H0237	10.09 g	2 mL	08/13/12 12:00
2080294-07	P2H0237	10.01 g	2 mL	08/13/12 12:00
2080294-07	P2H0237	10.01 g	2 mL	08/13/12 12:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
2080294-01	P2H0240	5.8 g	5 mL	08/13/12 13:29
2080294-02	P2H0240	5.69 g	5 mL	08/13/12 13:29
2080294-08	P2H0240	5.65 g	5 mL	08/13/12 13:29

Prep Method: 3550C MS

Lab Number	Batch	Initial	Final	Date/Time
2080294-03	P2H0321	30 g	1 mL	08/15/12 14:30
2080294-04	P2H0321	30 g	1 mL	08/15/12 14:30
2080294-05	P2H0321	30 g	1 mL	08/15/12 14:30
2080294-06	P2H0321	30 g	1 mL	08/15/12 14:30
2080294-07	P2H0321	30 g	1 mL	08/15/12 14:30

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
2080294-03	P2H0246	5.74 g	5 mL	08/13/12 8:00
2080294-04	P2H0246	5.78 g	5 mL	08/13/12 8:00
2080294-05	P2H0246	5.79 g	5 mL	08/13/12 8:00
2080294-06	P2H0246	5.56 g	5 mL	08/13/12 8:00
2080294-07	P2H0246	6.35 g	5 mL	08/13/12 8:00

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
2080294-03	P2H0245	5.73 g	16 mL	08/13/12 15:50
2080294-04	P2H0245	5.31 g	16 mL	08/13/12 15:50
2080294-05	P2H0245	5.82 g	16 mL	08/13/12 15:50
2080294-06	P2H0245	5.35 g	16 mL	08/13/12 15:50
2080294-07	P2H0245	5.32 g	16 mL	08/13/12 15:50

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: DPA - ~~OHT~~ 021

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: H+H

Address: _____

Client Company Name: Hart + Hickman

Report To/Contact Name: Sherman Cottrell

Reporting Address: 7923 S Tryon St Charlotte NC

Phone: 704 580 0207 Fax (Yes) (No): _____

Email (Yes) (No) Email Address: S cottrell@hart-hickman

EDD Type: PDF____ Excel____ Other_____

Site Location Name: _____

Site Location Physical Address: _____

Purchase Order No./Billing Reference _____

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☒ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 2.9	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ USACE____ FL____ NC____ SC____ OTHER _____ N/A _____

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	TPH DRO	VOC	SVOC	VOH	EPH		REMARKS	PRISM LAB ID NO.
TH (4)	8 10 12	1010	So, 1	Glass/voa	4			X							Ø1
TI-2(4)	↓	1015	↓	↓	4			X							Ø2
~~SP~~ SW-1(10)		1505			8				X	X	X	X			Ø3
SW-2(10)		1510			8				X	X	X	X			Ø4
SW-3(10)		1515			8				X	X	X	X			Ø5
SW-4(10)		1520			8				X	X	X	X			Ø6
B-1(12)		1525			8				X	X	X	X			Ø7
SP-1		1040			4			X							Ø8

Sampler's Signature [signature] Sampled By (Print Name) John Lyon Affiliation H+H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 9-10-12	1645

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☒ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. 2Ø8Ø294

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name:	Hart & Hickman (Charlotte)	Laboratory Name:	Prism Laboratories, Inc.
Project Name:	PPA-021	NC Certification # (Lab):	402
Site Location:		Sample Matrix:	Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP EPH						
EPH Surrogate Standards: Aliphatic - 1-Chloro-octadecane / Aromatic - o-Terphenyl						
EPH Fractionation Surrogates: #1 - 2-Bromonaphthalene / #2 - Fluorobiphenyl						
Sample Identification:		SW-1 (10)	SW-2 (10)	SW-3 (10)	SW-4 (10)	B-1 (12)
Date Collected:		8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Date Received:		8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Date Extracted:		8/13/2012	8/13/2012	8/13/2012	8/13/2012	8/13/2012
Date Analyzed:		8/17/2012	8/13/2012	8/13/2012	8/13/2012	8/13/2012
% Dry Solids:		81.6	82.6	83.0	82.9	81.7
Dilution Factor:		1	1	1	1	1
Hydrocarbon Ranges in mg/kg:		Sample Results	Sample Results	Sample Results	Sample Results	Sample Results
C9-C18 Aliphatics		<12	<12	<12	<12	<12
C19-C36 Aliphatics		<12	<12	<12	<12	<12
C11-C22 Aromatics		<12	<12	<12	<12	<12
Blank:	C9-C18 Aliphatics	<9.9	<9.9	<9.9	<9.9	<9.9
	C19-C36 Aliphatics	<9.9	<9.9	<9.9	<9.9	<9.9
	C11-C22 Aromatics	<9.9	<9.9	<9.9	<9.9	<9.9
RL:	C9-C18 Aliphatics	12	12	12	12	12
	C19-C36 Aliphatics	12	12	12	12	12
	C11-C22 Aromatics	12	12	12	12	12
MDL:	C9-C18 Aliphatics	1.0	1.0	1.0	1.0	1.0
	C19-C36 Aliphatics	1.1	1.1	1.1	1.1	1.1
	C11-C22 Aromatics	2.7	2.7	2.7	2.7	2.8
Surrogate Acceptance Range:	Blank	40-140 %	40-140 %	40-140 %	40-140 %	40-140 %
Aliphatic Surrogate % Rec.:	82	87	92	95	93	94
Aromatic Surrogate % Rec.:	74	91	92	95	93	94
Fractionation Surrogate Accep. Range:	Blank	40-140 %	40-140 %	40-140 %	40-140 %	40-140 %
Frac. Surrogate #1 % Rec.:	70	96	96	99	94	101
Frac. Surrogate #2 % Rec.:	79	99	100	100	97	102

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

Were all performance/acceptance standards for required QA/QC procedures achieved?	**YES**	No - Details Attached
Was blank correction applied as a significant modification of the method?	Yes	**NO**
Were any significant modifications to the EPH method made?	**NO**	Yes - Details Attached

Comments:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name:	Hart & Hickman (Charlotte)	Laboratory Name:	Prism Laboratories, Inc.
Project Name:	PPA-021	NC Certification # (Lab):	402
Site Location:		Sample Matrix:	Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards: Aliphatic - 2,5-Dibromotoluene / Aromatic - 2,5-Dibromotoluene

Sample Identification:			SW-1 (10)	SW-2 (10)	SW-3 (10)	SW-4 (10)	B-1 (12)
Collection Option (for soil*):			1	1	1	1	1
Date Collected:			8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Date Received:			8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Date Extracted:			8/13/2012	8/13/2012	8/13/2012	8/13/2012	8/13/2012
Date Analyzed:			8/14/2012	8/14/2012	8/14/2012	8/14/2012	8/14/2012
% Dry Solids:			81.6	82.6	83.0	82.9	81.7
Dilution Factor:			100	100	100	100	100
Hydrocarbon Ranges in mg/kg:			Sample Results	Sample Results	Sample Results	Sample Results	Sample Results
C5-C8 Aliphatics			<16	<17	<16	<17	<17
C9-C12 Aliphatics			<16	<17	<16	<17	<17
C9-C10 Aromatics			<16	<17	<16	<17	<17
Blank:	C5-C8 Aliphatics		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	C9-C12 Aliphatics		<5.0	<5.0	<5.0	<5.0	<5.0
	C9-C10 Aromatics		<5.0	<5.0	<5.0	<5.0	<5.0
RL:	C5-C8 Aliphatics		16	17	16	17	17
	C9-C12 Aliphatics		16	17	16	17	17
	C9-C10 Aromatics		16	17	16	17	17
MDL:	C5-C8 Aliphatics		0.94	1.0	0.91	0.99	1.0
	C9-C12 Aliphatics		2.7	2.9	2.6	2.8	2.9
	C9-C10 Aromatics		0.14	0.15	0.14	0.15	0.15
Surrogate Acceptance Range:		Blank	70-130 %	70-130 %	70-130 %	70-130 %	70-130 %
Aliphatic Surrogate % Rec. - FID:		84	79	77	89	84	80
Aromatic Surrogate % Rec. - PID:		88	82	80	92	87	82

* Option 1 = Established fill line on vial
* Option 2 = Sampling device (indicate brand, e.g., EnCore TM)
* Option 3 = Field weight of soil

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank (whichever is higher - indicate type)

Were all performance/acceptance standards for required QA/QC procedures achieved?	YES	No - Details Attached
Were any significant modifications to the VPH method made?	NO	Yes - Details Attached

Comments: VPH trip blank was not submitted to the laboratory.

Waste Oil UST

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August 24, 2012

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

RE: Project: PPA021
Pace Project No.: 92128134

Dear Mr. Hart:
Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: PPA021
Pace Project No.: 92128134

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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

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SAMPLE SUMMARY

Project: PPA021
Pace Project No.: 92128134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92128134001	**T2-1 (2)**	Solid	08/15/12 10:00	08/15/12 16:10
92128134002	**T2-2 (2)**	Solid	08/15/12 10:05	08/15/12 16:10
92128134003	**SP-2**	Solid	08/15/12 11:00	08/15/12 16:10
92128134004	**SW-1 (7)**	Solid	08/15/12 14:00	08/15/12 16:10
92128134005	**SW-2 (7)**	Solid	08/15/12 14:05	08/15/12 16:10
92128134006	**SW-3 (7)**	Solid	08/15/12 14:10	08/15/12 16:10
92128134007	**SW-4 (7)**	Solid	08/15/12 14:15	08/15/12 16:10
92128134008	**B-1 (9)**	Solid	08/15/12 12:45	08/15/12 16:10

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SAMPLE ANALYTE COUNT

Project: PPA021
Pace Project No.: 92128134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92128134001	**T2-1 (2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134002	**T2-2 (2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134003	**SP-2**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134004	**SW-1 (7)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	RGF	5	PASI-C
		EPA 6010	JDA	2	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134005	**SW-2 (7)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	RGF	5	PASI-C
		EPA 6010	JDA	2	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134006	**SW-3 (7)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	RGF	5	PASI-C
		EPA 6010	JDA	2	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134007	**SW-4 (7)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	RGF	5	PASI-C
		EPA 6010	JDA	2	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92128134008	**B-1 (9)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 6010	JDA	2	PASI-A
		EPA 8270	PPM	74	PASI-C

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SAMPLE ANALYTE COUNT

Project: PPA021
Pace Project No.: 92128134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: T2-1 (2) **Lab ID: 92128134001** Collected: 08/15/12 10:00 Received: 08/15/12 16:10 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	**5130**	mg/kg	143	25	08/16/12 09:22	08/20/12 12:44	68334-30-5	
Surrogates								
n-Pentacosane (S)	0	%	41-119	25	08/16/12 09:22	08/20/12 12:44	629-99-2	S4
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	**125**	mg/kg	6.0	1	08/16/12 13:40	08/18/12 18:09	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	213	%	70-167	1	08/16/12 13:40	08/18/12 18:09	460-00-4	S5
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.5**	%	0.10	1		08/16/12 12:49		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: T2-2 (2) **Lab ID: 92128134002** Collected: 08/15/12 10:05 Received: 08/15/12 16:10 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	**21.7**	mg/kg	5.7	1	08/16/12 09:22	08/17/12 20:47	68334-30-5	
Surrogates								
n-Pentacosane (S)	78	%	41-119	1	08/16/12 09:22	08/17/12 20:47	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	6.6	1	08/16/12 13:40	08/18/12 18:32	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	118	%	70-167	1	08/16/12 13:40	08/18/12 18:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.6**	%	0.10	1		08/16/12 12:49		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SP-2 **Lab ID: 92128134003** Collected: 08/15/12 11:00 Received: 08/15/12 16:10 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	**7750**	mg/kg	298	50	08/16/12 09:22	08/21/12 04:43	68334-30-5	
Surrogates								
n-Pentacosane (S)	0	%	41-119	50	08/16/12 09:22	08/21/12 04:43	629-99-2	S4
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	**232**	mg/kg	6.6	1	08/16/12 13:40	08/18/12 18:55	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	250	%	70-167	1	08/16/12 13:40	08/18/12 18:55	460-00-4	S5
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.0**	%	0.10	1		08/16/12 12:49		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-1 (7) **Lab ID: 92128134004** Collected: 08/15/12 14:00 Received: 08/15/12 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.5	1	08/16/12 07:32	08/16/12 22:05		N2
Aliphatic (C19-C36)	ND	mg/kg	11.5	1	08/16/12 07:32	08/16/12 22:05		N2
Aromatic (C11-C22)	ND	mg/kg	11.5	1	08/16/12 07:32	08/16/12 22:05		N2
Surrogates								
Nonatriacontane (S)	57	%	40-140	1	08/16/12 07:32	08/16/12 22:05	7194-86-7	
o-Terphenyl (S)	66	%	40-140	1	08/16/12 07:32	08/16/12 22:05	84-15-1	
2-Fluorobiphenyl (S)	85	%	40-140	1	08/16/12 07:32	08/16/12 22:05	321-60-8	
2-Bromonaphthalene (S)	84	%	40-140	1	08/16/12 07:32	08/16/12 22:05	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.2	1	08/22/12 11:40	08/22/12 23:49		N2
Aliphatic (C09-C12)	ND	mg/kg	3.2	1	08/22/12 11:40	08/22/12 23:49		N2
Aromatic (C09-C10)	ND	mg/kg	3.2	1	08/22/12 11:40	08/22/12 23:49		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	116	%	70-130	1	08/22/12 11:40	08/22/12 23:49	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1	08/22/12 11:40	08/22/12 23:49	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	ND	mg/kg	0.57	1	08/17/12 06:00	08/17/12 21:47	7440-47-3	
Lead	**10.4**	mg/kg	0.57	1	08/17/12 06:00	08/17/12 21:47	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	83-32-9	
Acenaphthylene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	208-96-8	
Aniline	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	62-53-3	
Anthracene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	120-12-7	
Benzo(a)anthracene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	56-55-3	
Benzo(a)pyrene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	207-08-9	
Benzoic Acid	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	65-85-0	
Benzyl alcohol	ND	ug/kg	757	1	08/16/12 08:00	08/17/12 13:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	101-55-3	
Butylbenzylphthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	757	1	08/16/12 08:00	08/17/12 13:36	59-50-7	
4-Chloroaniline	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	108-60-1	
2-Chloronaphthalene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	91-58-7	
2-Chlorophenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	7005-72-3	
Chrysene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	53-70-3	
Dibenzofuran	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	132-64-9	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-1 (7) **Lab ID: 92128134004** Collected: 08/15/12 14:00 Received: 08/15/12 16:10 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							
1,2-Dichlorobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	120-83-2	
Diethylphthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	105-67-9	
Dimethylphthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	131-11-3	
Di-n-butylphthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	757	1	08/16/12 08:00	08/17/12 13:36	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	606-20-2	
Di-n-octylphthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	117-81-7	
Fluoranthene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	206-44-0	
Fluorene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	87-68-3	
Hexachlorobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	77-47-4	
Hexachloroethane	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	193-39-5	
Isophorone	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	78-59-1	
1-Methylnaphthalene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	90-12-0	
2-Methylnaphthalene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36		
Naphthalene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	91-20-3	
2-Nitroaniline	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	88-74-4	
3-Nitroaniline	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	99-09-2	
4-Nitroaniline	ND	ug/kg	757	1	08/16/12 08:00	08/17/12 13:36	100-01-6	
Nitrobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	98-95-3	
2-Nitrophenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	88-75-5	
4-Nitrophenol	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	86-30-6	
Pentachlorophenol	ND	ug/kg	1890	1	08/16/12 08:00	08/17/12 13:36	87-86-5	
Phenanthrene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	85-01-8	
Phenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	108-95-2	
Pyrene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	378	1	08/16/12 08:00	08/17/12 13:36	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	36	%	23-110	1	08/16/12 08:00	08/17/12 13:36	4165-60-0	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-1 (7) **Lab ID: 92128134004** Collected: 08/15/12 14:00 Received: 08/15/12 16:10 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							
Surrogates								
2-Fluorobiphenyl (S)	35	%	30-110	1	08/16/12 08:00	08/17/12 13:36	321-60-8	
Terphenyl-d14 (S)	56	%	28-110	1	08/16/12 08:00	08/17/12 13:36	1718-51-0	
Phenol-d6 (S)	32	%	22-110	1	08/16/12 08:00	08/17/12 13:36	13127-88-3	
2-Fluorophenol (S)	33	%	13-110	1	08/16/12 08:00	08/17/12 13:36	367-12-4	
2,4,6-Tribromophenol (S)	30	%	27-110	1	08/16/12 08:00	08/17/12 13:36	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	111	1		08/16/12 16:23	67-64-1	
Benzene	ND	ug/kg	5.6	1		08/16/12 16:23	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		08/16/12 16:23	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		08/16/12 16:23	75-27-4	
Bromoform	ND	ug/kg	5.6	1		08/16/12 16:23	75-25-2	
Bromomethane	ND	ug/kg	11.1	1		08/16/12 16:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	111	1		08/16/12 16:23	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.6	1		08/16/12 16:23	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	108-90-7	
Chloroethane	ND	ug/kg	11.1	1		08/16/12 16:23	75-00-3	
Chloroform	ND	ug/kg	5.6	1		08/16/12 16:23	67-66-3	
Chloromethane	ND	ug/kg	11.1	1		08/16/12 16:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		08/16/12 16:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		08/16/12 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.6	1		08/16/12 16:23	96-12-8	
Dibromochloromethane	ND	ug/kg	5.6	1		08/16/12 16:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		08/16/12 16:23	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		08/16/12 16:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.1	1		08/16/12 16:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		08/16/12 16:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		08/16/12 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		08/16/12 16:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		08/16/12 16:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		08/16/12 16:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		08/16/12 16:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		08/16/12 16:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		08/16/12 16:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		08/16/12 16:23	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.6	1		08/16/12 16:23	108-20-3	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-1 (7) **Lab ID: 92128134004** Collected: 08/15/12 14:00 Received: 08/15/12 16:10 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							
Ethylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		08/16/12 16:23	87-68-3	
2-Hexanone	ND	ug/kg	55.6	1		08/16/12 16:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		08/16/12 16:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		08/16/12 16:23	99-87-6	
Methylene Chloride	ND	ug/kg	22.2	1		08/16/12 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	55.6	1		08/16/12 16:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		08/16/12 16:23	1634-04-4	
Naphthalene	ND	ug/kg	5.6	1		08/16/12 16:23	91-20-3	
n-Propylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	103-65-1	
Styrene	ND	ug/kg	5.6	1		08/16/12 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		08/16/12 16:23	127-18-4	
Toluene	ND	ug/kg	5.6	1		08/16/12 16:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		08/16/12 16:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		08/16/12 16:23	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		08/16/12 16:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		08/16/12 16:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		08/16/12 16:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		08/16/12 16:23	108-67-8	
Vinyl acetate	ND	ug/kg	55.6	1		08/16/12 16:23	108-05-4	
Vinyl chloride	ND	ug/kg	11.1	1		08/16/12 16:23	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		08/16/12 16:23	1330-20-7	
m&p-Xylene	ND	ug/kg	11.1	1		08/16/12 16:23	179601-23-1	
o-Xylene	ND	ug/kg	5.6	1		08/16/12 16:23	95-47-6	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		08/16/12 16:23	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		08/16/12 16:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		08/16/12 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-132	1		08/16/12 16:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.8**	%	0.10	1		08/16/12 12:49		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-2 (7) **Lab ID: 92128134005** Collected: 08/15/12 14:05 Received: 08/15/12 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.1	1	08/16/12 07:32	08/16/12 22:41		N2
Aliphatic (C19-C36)	ND	mg/kg	11.1	1	08/16/12 07:32	08/16/12 22:41		N2
Aromatic (C11-C22)	ND	mg/kg	11.1	1	08/16/12 07:32	08/16/12 22:41		N2
Surrogates								
Nonatriacontane (S)	62	%	40-140	1	08/16/12 07:32	08/16/12 22:41	7194-86-7	
o-Terphenyl (S)	66	%	40-140	1	08/16/12 07:32	08/16/12 22:41	84-15-1	
2-Fluorobiphenyl (S)	81	%	40-140	1	08/16/12 07:32	08/16/12 22:41	321-60-8	
2-Bromonaphthalene (S)	80	%	40-140	1	08/16/12 07:32	08/16/12 22:41	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.2	1	08/22/12 11:40	08/23/12 00:12		N2
Aliphatic (C09-C12)	ND	mg/kg	3.2	1	08/22/12 11:40	08/23/12 00:12		N2
Aromatic (C09-C10)	ND	mg/kg	3.2	1	08/22/12 11:40	08/23/12 00:12		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	118	%	70-130	1	08/22/12 11:40	08/23/12 00:12	460-00-4	
4-Bromofluorobenzene (PID) (S)	106	%	70-130	1	08/22/12 11:40	08/23/12 00:12	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	ND	mg/kg	0.49	1	08/17/12 06:00	08/17/12 21:51	7440-47-3	
Lead	**4.3**	mg/kg	0.49	1	08/17/12 06:00	08/17/12 21:51	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	83-32-9	
Acenaphthylene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	208-96-8	
Aniline	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	62-53-3	
Anthracene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	65-85-0	
Benzyl alcohol	ND	ug/kg	734	1	08/16/12 08:00	08/17/12 14:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	734	1	08/16/12 08:00	08/17/12 14:04	59-50-7	
4-Chloroaniline	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	108-60-1	
2-Chloronaphthalene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	91-58-7	
2-Chlorophenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	7005-72-3	
Chrysene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	53-70-3	
Dibenzofuran	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	132-64-9	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-2 (7) **Lab ID: 92128134005** Collected: 08/15/12 14:05 Received: 08/15/12 16:10 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							
1,2-Dichlorobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	120-83-2	
Diethylphthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	105-67-9	
Dimethylphthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	734	1	08/16/12 08:00	08/17/12 14:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	117-81-7	
Fluoranthene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	206-44-0	
Fluorene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	77-47-4	
Hexachloroethane	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	193-39-5	
Isophorone	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04		
Naphthalene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	99-09-2	
4-Nitroaniline	ND	ug/kg	734	1	08/16/12 08:00	08/17/12 14:04	100-01-6	
Nitrobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	98-95-3	
2-Nitrophenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	08/16/12 08:00	08/17/12 14:04	87-86-5	
Phenanthrene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	85-01-8	
Phenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	108-95-2	
Pyrene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	367	1	08/16/12 08:00	08/17/12 14:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	56	%	23-110	1	08/16/12 08:00	08/17/12 14:04	4165-60-0	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-2 (7) **Lab ID: 92128134005** Collected: 08/15/12 14:05 Received: 08/15/12 16:10 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							
Surrogates								
2-Fluorobiphenyl (S)	56	%	30-110	1	08/16/12 08:00	08/17/12 14:04	321-60-8	
Terphenyl-d14 (S)	62	%	28-110	1	08/16/12 08:00	08/17/12 14:04	1718-51-0	
Phenol-d6 (S)	53	%	22-110	1	08/16/12 08:00	08/17/12 14:04	13127-88-3	
2-Fluorophenol (S)	52	%	13-110	1	08/16/12 08:00	08/17/12 14:04	367-12-4	
2,4,6-Tribromophenol (S)	54	%	27-110	1	08/16/12 08:00	08/17/12 14:04	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	101	1		08/16/12 16:42	67-64-1	
Benzene	ND	ug/kg	5.1	1		08/16/12 16:42	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		08/16/12 16:42	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		08/16/12 16:42	75-27-4	
Bromoform	ND	ug/kg	5.1	1		08/16/12 16:42	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		08/16/12 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		08/16/12 16:42	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		08/16/12 16:42	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		08/16/12 16:42	75-00-3	
Chloroform	ND	ug/kg	5.1	1		08/16/12 16:42	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		08/16/12 16:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		08/16/12 16:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		08/16/12 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		08/16/12 16:42	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		08/16/12 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		08/16/12 16:42	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		08/16/12 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		08/16/12 16:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		08/16/12 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		08/16/12 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		08/16/12 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		08/16/12 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		08/16/12 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		08/16/12 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		08/16/12 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		08/16/12 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		08/16/12 16:42	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		08/16/12 16:42	108-20-3	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-2 (7) **Lab ID: 92128134005** Collected: 08/15/12 14:05 Received: 08/15/12 16:10 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							
Ethylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		08/16/12 16:42	87-68-3	
2-Hexanone	ND	ug/kg	50.7	1		08/16/12 16:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		08/16/12 16:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		08/16/12 16:42	99-87-6	
Methylene Chloride	ND	ug/kg	20.3	1		08/16/12 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.7	1		08/16/12 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		08/16/12 16:42	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		08/16/12 16:42	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	103-65-1	
Styrene	ND	ug/kg	5.1	1		08/16/12 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		08/16/12 16:42	127-18-4	
Toluene	ND	ug/kg	5.1	1		08/16/12 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		08/16/12 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		08/16/12 16:42	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		08/16/12 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		08/16/12 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		08/16/12 16:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		08/16/12 16:42	108-67-8	
Vinyl acetate	ND	ug/kg	50.7	1		08/16/12 16:42	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		08/16/12 16:42	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		08/16/12 16:42	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		08/16/12 16:42	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		08/16/12 16:42	95-47-6	
Surrogates								
Dibromofluoromethane (S)	95	%	70-130	1		08/16/12 16:42	1868-53-7	
Toluene-d8 (S)	94	%	70-130	1		08/16/12 16:42	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		08/16/12 16:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132	1		08/16/12 16:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.0**	%	0.10	1		08/16/12 12:49		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-3 (7) **Lab ID: 92128134006** Collected: 08/15/12 14:10 Received: 08/15/12 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	12.0	1	08/16/12 07:32	08/16/12 23:17		N2
Aliphatic (C19-C36)	ND	mg/kg	12.0	1	08/16/12 07:32	08/16/12 23:17		N2
Aromatic (C11-C22)	ND	mg/kg	12.0	1	08/16/12 07:32	08/16/12 23:17		N2
Surrogates								
Nonatriacontane (S)	61	%	40-140	1	08/16/12 07:32	08/16/12 23:17	7194-86-7	
o-Terphenyl (S)	64	%	40-140	1	08/16/12 07:32	08/16/12 23:17	84-15-1	
2-Fluorobiphenyl (S)	84	%	40-140	1	08/16/12 07:32	08/16/12 23:17	321-60-8	
2-Bromonaphthalene (S)	84	%	40-140	1	08/16/12 07:32	08/16/12 23:17	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.5	1	08/22/12 11:40	08/23/12 00:35		N2
Aliphatic (C09-C12)	ND	mg/kg	3.5	1	08/22/12 11:40	08/23/12 00:35		N2
Aromatic (C09-C10)	ND	mg/kg	3.5	1	08/22/12 11:40	08/23/12 00:35		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	118	%	70-130	1	08/22/12 11:40	08/23/12 00:35	460-00-4	
4-Bromofluorobenzene (PID) (S)	106	%	70-130	1	08/22/12 11:40	08/23/12 00:35	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	ND	mg/kg	0.59	1	08/17/12 06:00	08/17/12 21:55	7440-47-3	
Lead	**10**	mg/kg	0.59	1	08/17/12 06:00	08/17/12 21:55	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	83-32-9	
Acenaphthylene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	208-96-8	
Aniline	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	62-53-3	
Anthracene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	120-12-7	
Benzo(a)anthracene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	207-08-9	
Benzoic Acid	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	65-85-0	
Benzyl alcohol	ND	ug/kg	793	1	08/16/12 08:00	08/17/12 14:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	101-55-3	
Butylbenzylphthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	793	1	08/16/12 08:00	08/17/12 14:32	59-50-7	
4-Chloroaniline	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	108-60-1	
2-Chloronaphthalene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	91-58-7	
2-Chlorophenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	7005-72-3	
Chrysene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	53-70-3	
Dibenzofuran	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	132-64-9	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-3 (7) **Lab ID: 92128134006** Collected: 08/15/12 14:10 Received: 08/15/12 16:10 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							
1,2-Dichlorobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	120-83-2	
Diethylphthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	105-67-9	
Dimethylphthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	131-11-3	
Di-n-butylphthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	793	1	08/16/12 08:00	08/17/12 14:32	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	606-20-2	
Di-n-octylphthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	117-81-7	
Fluoranthene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	206-44-0	
Fluorene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	87-68-3	
Hexachlorobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	77-47-4	
Hexachloroethane	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	193-39-5	
Isophorone	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	78-59-1	
1-Methylnaphthalene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32		
Naphthalene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	91-20-3	
2-Nitroaniline	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	88-74-4	
3-Nitroaniline	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	99-09-2	
4-Nitroaniline	ND	ug/kg	793	1	08/16/12 08:00	08/17/12 14:32	100-01-6	
Nitrobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	98-95-3	
2-Nitrophenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	88-75-5	
4-Nitrophenol	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	86-30-6	
Pentachlorophenol	ND	ug/kg	1980	1	08/16/12 08:00	08/17/12 14:32	87-86-5	
Phenanthrene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	85-01-8	
Phenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	108-95-2	
Pyrene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	396	1	08/16/12 08:00	08/17/12 14:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	46	%	23-110	1	08/16/12 08:00	08/17/12 14:32	4165-60-0	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-3 (7) **Lab ID: 92128134006** Collected: 08/15/12 14:10 Received: 08/15/12 16:10 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							
Surrogates								
2-Fluorobiphenyl (S)	48	%	30-110	1	08/16/12 08:00	08/17/12 14:32	321-60-8	
Terphenyl-d14 (S)	52	%	28-110	1	08/16/12 08:00	08/17/12 14:32	1718-51-0	
Phenol-d6 (S)	42	%	22-110	1	08/16/12 08:00	08/17/12 14:32	13127-88-3	
2-Fluorophenol (S)	43	%	13-110	1	08/16/12 08:00	08/17/12 14:32	367-12-4	
2,4,6-Tribromophenol (S)	41	%	27-110	1	08/16/12 08:00	08/17/12 14:32	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	111	1		08/16/12 17:00	67-64-1	
Benzene	ND	ug/kg	5.5	1		08/16/12 17:00	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		08/16/12 17:00	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		08/16/12 17:00	75-27-4	
Bromoform	ND	ug/kg	5.5	1		08/16/12 17:00	75-25-2	
Bromomethane	ND	ug/kg	11.1	1		08/16/12 17:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	111	1		08/16/12 17:00	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1		08/16/12 17:00	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	108-90-7	
Chloroethane	ND	ug/kg	11.1	1		08/16/12 17:00	75-00-3	
Chloroform	ND	ug/kg	5.5	1		08/16/12 17:00	67-66-3	
Chloromethane	ND	ug/kg	11.1	1		08/16/12 17:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		08/16/12 17:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		08/16/12 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		08/16/12 17:00	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		08/16/12 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		08/16/12 17:00	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		08/16/12 17:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.1	1		08/16/12 17:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		08/16/12 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		08/16/12 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		08/16/12 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		08/16/12 17:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		08/16/12 17:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		08/16/12 17:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		08/16/12 17:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		08/16/12 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		08/16/12 17:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1		08/16/12 17:00	108-20-3	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-3 (7) **Lab ID: 92128134006** Collected: 08/15/12 14:10 Received: 08/15/12 16:10 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							
Ethylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		08/16/12 17:00	87-68-3	
2-Hexanone	ND	ug/kg	55.4	1		08/16/12 17:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		08/16/12 17:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		08/16/12 17:00	99-87-6	
Methylene Chloride	ND	ug/kg	22.2	1		08/16/12 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	55.4	1		08/16/12 17:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		08/16/12 17:00	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		08/16/12 17:00	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	103-65-1	
Styrene	ND	ug/kg	5.5	1		08/16/12 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		08/16/12 17:00	127-18-4	
Toluene	ND	ug/kg	5.5	1		08/16/12 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		08/16/12 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		08/16/12 17:00	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		08/16/12 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		08/16/12 17:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		08/16/12 17:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		08/16/12 17:00	108-67-8	
Vinyl acetate	ND	ug/kg	55.4	1		08/16/12 17:00	108-05-4	
Vinyl chloride	ND	ug/kg	11.1	1		08/16/12 17:00	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		08/16/12 17:00	1330-20-7	
m&p-Xylene	ND	ug/kg	11.1	1		08/16/12 17:00	179601-23-1	
o-Xylene	ND	ug/kg	5.5	1		08/16/12 17:00	95-47-6	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		08/16/12 17:00	1868-53-7	
Toluene-d8 (S)	92	%	70-130	1		08/16/12 17:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		08/16/12 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-132	1		08/16/12 17:00	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.7**	%	0.10	1		08/16/12 12:50		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-4 (7) **Lab ID: 92128134007** Collected: 08/15/12 14:15 Received: 08/15/12 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.6	1	08/16/12 07:32	08/16/12 23:54		N2
Aliphatic (C19-C36)	ND	mg/kg	11.6	1	08/16/12 07:32	08/16/12 23:54		N2
Aromatic (C11-C22)	ND	mg/kg	11.6	1	08/16/12 07:32	08/16/12 23:54		N2
Surrogates								
Nonatriacontane (S)	59	%	40-140	1	08/16/12 07:32	08/16/12 23:54	7194-86-7	
o-Terphenyl (S)	68	%	40-140	1	08/16/12 07:32	08/16/12 23:54	84-15-1	
2-Fluorobiphenyl (S)	81	%	40-140	1	08/16/12 07:32	08/16/12 23:54	321-60-8	
2-Bromonaphthalene (S)	79	%	40-140	1	08/16/12 07:32	08/16/12 23:54	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.3	1	08/22/12 11:40	08/23/12 00:58		N2
Aliphatic (C09-C12)	ND	mg/kg	3.3	1	08/22/12 11:40	08/23/12 00:58		N2
Aromatic (C09-C10)	ND	mg/kg	3.3	1	08/22/12 11:40	08/23/12 00:58		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	121	%	70-130	1	08/22/12 11:40	08/23/12 00:58	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130	1	08/22/12 11:40	08/23/12 00:58	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	ND	mg/kg	0.51	1	08/17/12 06:00	08/17/12 21:59	7440-47-3	
Lead	**3.9**	mg/kg	0.51	1	08/17/12 06:00	08/17/12 21:59	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	83-32-9	
Acenaphthylene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	208-96-8	
Aniline	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	62-53-3	
Anthracene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	207-08-9	
Benzoic Acid	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	65-85-0	
Benzyl alcohol	ND	ug/kg	765	1	08/16/12 08:00	08/17/12 15:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	101-55-3	
Butylbenzylphthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	765	1	08/16/12 08:00	08/17/12 15:00	59-50-7	
4-Chloroaniline	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	108-60-1	
2-Chloronaphthalene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	91-58-7	
2-Chlorophenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	7005-72-3	
Chrysene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	53-70-3	
Dibenzofuran	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	132-64-9	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-4 (7) **Lab ID: 92128134007** Collected: 08/15/12 14:15 Received: 08/15/12 16:10 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							
1,2-Dichlorobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	120-83-2	
Diethylphthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	105-67-9	
Dimethylphthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	131-11-3	
Di-n-butylphthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	765	1	08/16/12 08:00	08/17/12 15:00	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	606-20-2	
Di-n-octylphthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	117-81-7	
Fluoranthene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	206-44-0	
Fluorene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	87-68-3	
Hexachlorobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	77-47-4	
Hexachloroethane	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	193-39-5	
Isophorone	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	78-59-1	
1-Methylnaphthalene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00		
Naphthalene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	91-20-3	
2-Nitroaniline	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	88-74-4	
3-Nitroaniline	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	99-09-2	
4-Nitroaniline	ND	ug/kg	765	1	08/16/12 08:00	08/17/12 15:00	100-01-6	
Nitrobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	98-95-3	
2-Nitrophenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	88-75-5	
4-Nitrophenol	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	86-30-6	
Pentachlorophenol	ND	ug/kg	1910	1	08/16/12 08:00	08/17/12 15:00	87-86-5	
Phenanthrene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	85-01-8	
Phenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	108-95-2	
Pyrene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	382	1	08/16/12 08:00	08/17/12 15:00	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	23-110	1	08/16/12 08:00	08/17/12 15:00	4165-60-0	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-4 (7) **Lab ID: 92128134007** Collected: 08/15/12 14:15 Received: 08/15/12 16:10 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							
Surrogates								
2-Fluorobiphenyl (S)	59	%	30-110	1	08/16/12 08:00	08/17/12 15:00	321-60-8	
Terphenyl-d14 (S)	61	%	28-110	1	08/16/12 08:00	08/17/12 15:00	1718-51-0	
Phenol-d6 (S)	55	%	22-110	1	08/16/12 08:00	08/17/12 15:00	13127-88-3	
2-Fluorophenol (S)	53	%	13-110	1	08/16/12 08:00	08/17/12 15:00	367-12-4	
2,4,6-Tribromophenol (S)	59	%	27-110	1	08/16/12 08:00	08/17/12 15:00	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	109	1		08/16/12 17:19	67-64-1	
Benzene	ND	ug/kg	5.4	1		08/16/12 17:19	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		08/16/12 17:19	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		08/16/12 17:19	75-27-4	
Bromoform	ND	ug/kg	5.4	1		08/16/12 17:19	75-25-2	
Bromomethane	ND	ug/kg	10.9	1		08/16/12 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	109	1		08/16/12 17:19	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.4	1		08/16/12 17:19	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	108-90-7	
Chloroethane	ND	ug/kg	10.9	1		08/16/12 17:19	75-00-3	
Chloroform	ND	ug/kg	5.4	1		08/16/12 17:19	67-66-3	
Chloromethane	ND	ug/kg	10.9	1		08/16/12 17:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		08/16/12 17:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		08/16/12 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		08/16/12 17:19	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		08/16/12 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		08/16/12 17:19	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		08/16/12 17:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.9	1		08/16/12 17:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		08/16/12 17:19	108-20-3	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: SW-4 (7) **Lab ID: 92128134007** Collected: 08/15/12 14:15 Received: 08/15/12 16:10 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							
Ethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		08/16/12 17:19	87-68-3	
2-Hexanone	ND	ug/kg	54.4	1		08/16/12 17:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		08/16/12 17:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		08/16/12 17:19	99-87-6	
Methylene Chloride	ND	ug/kg	21.8	1		08/16/12 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.4	1		08/16/12 17:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		08/16/12 17:19	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		08/16/12 17:19	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	103-65-1	
Styrene	ND	ug/kg	5.4	1		08/16/12 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		08/16/12 17:19	127-18-4	
Toluene	ND	ug/kg	5.4	1		08/16/12 17:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		08/16/12 17:19	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		08/16/12 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		08/16/12 17:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		08/16/12 17:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:19	108-67-8	
Vinyl acetate	ND	ug/kg	54.4	1		08/16/12 17:19	108-05-4	
Vinyl chloride	ND	ug/kg	10.9	1		08/16/12 17:19	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		08/16/12 17:19	1330-20-7	
m&p-Xylene	ND	ug/kg	10.9	1		08/16/12 17:19	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		08/16/12 17:19	95-47-6	
Surrogates								
Dibromofluoromethane (S)	96	%	70-130	1		08/16/12 17:19	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		08/16/12 17:19	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130	1		08/16/12 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1		08/16/12 17:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.7**	%	0.10	1		08/16/12 12:50		

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: B-1 (9) **Lab ID: 92128134008** Collected: 08/15/12 12:45 Received: 08/15/12 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	11.2	1	08/16/12 07:32	08/17/12 00:30		N2
Aliphatic (C19-C36)	ND	mg/kg	11.2	1	08/16/12 07:32	08/17/12 00:30		N2
Aromatic (C11-C22)	ND	mg/kg	11.2	1	08/16/12 07:32	08/17/12 00:30		N2
Surrogates								
Nonatriacontane (S)	76	%	40-140	1	08/16/12 07:32	08/17/12 00:30	7194-86-7	
o-Terphenyl (S)	70	%	40-140	1	08/16/12 07:32	08/17/12 00:30	84-15-1	
2-Fluorobiphenyl (S)	87	%	40-140	1	08/16/12 07:32	08/17/12 00:30	321-60-8	
2-Bromonaphthalene (S)	86	%	40-140	1	08/16/12 07:32	08/17/12 00:30	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.1	1	08/23/12 14:21	08/24/12 13:46		N2
Aliphatic (C09-C12)	ND	mg/kg	3.1	1	08/23/12 14:21	08/24/12 13:46		N2
Aromatic (C09-C10)	ND	mg/kg	3.1	1	08/23/12 14:21	08/24/12 13:46		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	123	%	70-130	1	08/23/12 14:21	08/24/12 13:46	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130	1	08/23/12 14:21	08/24/12 13:46	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	ND	mg/kg	0.56	1	08/17/12 06:00	08/17/12 22:13	7440-47-3	
Lead	**5.5**	mg/kg	0.56	1	08/17/12 06:00	08/17/12 22:13	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	83-32-9	
Acenaphthylene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	208-96-8	
Aniline	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	62-53-3	
Anthracene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	207-08-9	
Benzoic Acid	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	65-85-0	
Benzyl alcohol	ND	ug/kg	736	1	08/16/12 08:00	08/17/12 15:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	101-55-3	
Butylbenzylphthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	736	1	08/16/12 08:00	08/17/12 15:28	59-50-7	
4-Chloroaniline	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	108-60-1	
2-Chloronaphthalene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	91-58-7	
2-Chlorophenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	7005-72-3	
Chrysene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	53-70-3	
Dibenzofuran	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	132-64-9	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: B-1 (9) **Lab ID: 92128134008** Collected: 08/15/12 12:45 Received: 08/15/12 16:10 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							
1,2-Dichlorobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	120-83-2	
Diethylphthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	105-67-9	
Dimethylphthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	736	1	08/16/12 08:00	08/17/12 15:28	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	117-81-7	
Fluoranthene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	206-44-0	
Fluorene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	77-47-4	
Hexachloroethane	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	193-39-5	
Isophorone	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	78-59-1	
1-Methylnaphthalene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	90-12-0	
2-Methylnaphthalene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28		
Naphthalene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	91-20-3	
2-Nitroaniline	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	88-74-4	
3-Nitroaniline	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	99-09-2	
4-Nitroaniline	ND	ug/kg	736	1	08/16/12 08:00	08/17/12 15:28	100-01-6	
Nitrobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	98-95-3	
2-Nitrophenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	88-75-5	
4-Nitrophenol	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	86-30-6	
Pentachlorophenol	ND	ug/kg	1840	1	08/16/12 08:00	08/17/12 15:28	87-86-5	
Phenanthrene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	85-01-8	
Phenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	108-95-2	
Pyrene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	1	08/16/12 08:00	08/17/12 15:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	55	%	23-110	1	08/16/12 08:00	08/17/12 15:28	4165-60-0	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: B-1 (9) **Lab ID: 92128134008** Collected: 08/15/12 12:45 Received: 08/15/12 16:10 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							
Surrogates								
2-Fluorobiphenyl (S)	56	%	30-110	1	08/16/12 08:00	08/17/12 15:28	321-60-8	
Terphenyl-d14 (S)	60	%	28-110	1	08/16/12 08:00	08/17/12 15:28	1718-51-0	
Phenol-d6 (S)	50	%	22-110	1	08/16/12 08:00	08/17/12 15:28	13127-88-3	
2-Fluorophenol (S)	51	%	13-110	1	08/16/12 08:00	08/17/12 15:28	367-12-4	
2,4,6-Tribromophenol (S)	51	%	27-110	1	08/16/12 08:00	08/17/12 15:28	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	108	1		08/16/12 17:37	67-64-1	
Benzene	ND	ug/kg	5.4	1		08/16/12 17:37	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		08/16/12 17:37	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		08/16/12 17:37	75-27-4	
Bromoform	ND	ug/kg	5.4	1		08/16/12 17:37	75-25-2	
Bromomethane	ND	ug/kg	10.8	1		08/16/12 17:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	108	1		08/16/12 17:37	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.4	1		08/16/12 17:37	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	108-90-7	
Chloroethane	ND	ug/kg	10.8	1		08/16/12 17:37	75-00-3	
Chloroform	ND	ug/kg	5.4	1		08/16/12 17:37	67-66-3	
Chloromethane	ND	ug/kg	10.8	1		08/16/12 17:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		08/16/12 17:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		08/16/12 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		08/16/12 17:37	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		08/16/12 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		08/16/12 17:37	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		08/16/12 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.8	1		08/16/12 17:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		08/16/12 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		08/16/12 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		08/16/12 17:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		08/16/12 17:37	108-20-3	

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ANALYTICAL RESULTS

Project: PPA021
Pace Project No.: 92128134

Sample: B-1 (9) **Lab ID: 92128134008** Collected: 08/15/12 12:45 Received: 08/15/12 16:10 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							
Ethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		08/16/12 17:37	87-68-3	
2-Hexanone	ND	ug/kg	53.9	1		08/16/12 17:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		08/16/12 17:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		08/16/12 17:37	99-87-6	
Methylene Chloride	ND	ug/kg	21.5	1		08/16/12 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.9	1		08/16/12 17:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		08/16/12 17:37	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		08/16/12 17:37	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	103-65-1	
Styrene	ND	ug/kg	5.4	1		08/16/12 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		08/16/12 17:37	127-18-4	
Toluene	ND	ug/kg	5.4	1		08/16/12 17:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		08/16/12 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		08/16/12 17:37	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		08/16/12 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		08/16/12 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		08/16/12 17:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		08/16/12 17:37	108-67-8	
Vinyl acetate	ND	ug/kg	53.9	1		08/16/12 17:37	108-05-4	
Vinyl chloride	ND	ug/kg	10.8	1		08/16/12 17:37	75-01-4	
Xylene (Total)	ND	ug/kg	10.8	1		08/16/12 17:37	1330-20-7	
m&p-Xylene	ND	ug/kg	10.8	1		08/16/12 17:37	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		08/16/12 17:37	95-47-6	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	1		08/16/12 17:37	1868-53-7	
Toluene-d8 (S)	92	%	70-130	1		08/16/12 17:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		08/16/12 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-132	1		08/16/12 17:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.10	1		08/16/12 12:50		

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: GCV/6189 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B — Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92128134001, 92128134002, 92128134003

METHOD BLANK: 815879 — Matrix: Solid
Associated Lab Samples: 92128134001, 92128134002, 92128134003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.8	08/18/12 12:20	
4-Bromofluorobenzene (S)	%	101	70-167	08/18/12 12:20	

LABORATORY CONTROL SAMPLE: 815880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	24.4	26.9	110	70-165	
4-Bromofluorobenzene (S)	%			100	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 815881 815882

Parameter	Units	92127524001 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	31.1	31.1	33.0	33.0	103	103	47-187	0	30	1g
4-Bromofluorobenzene (S)	%						98	102	70-167			

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: GCV/6201 — Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH — Analysis Description: VPH NC Soil
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007

METHOD BLANK: 819190 — Matrix: Solid
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.4	08/22/12 12:56	N2
Aliphatic (C09-C12)	mg/kg	ND	2.4	08/22/12 12:56	N2
Aromatic (C09-C10)	mg/kg	ND	2.4	08/22/12 12:56	N2
4-Bromofluorobenzene (FID) (S)	%	100	70-130	08/22/12 12:56	
4-Bromofluorobenzene (PID) (S)	%	90	70-130	08/22/12 12:56	

LABORATORY CONTROL SAMPLE & LCSD: 819191 819192

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	14.2	12.6	12.0	89	85	70-130	5	25	N2
Aliphatic (C09-C12)	mg/kg	14.2	14.3	14.0	101	99	30-130	2	25	N2
Aromatic (C09-C10)	mg/kg	4.7	5.0	4.8	105	102	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				88	88	70-130			

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: GCV/6205
QC Batch Method: MADEP VPH
Analysis Method: MADEP VPH
Analysis Description: VPH NC Soil
Associated Lab Samples: 92128134008

METHOD BLANK: 820192
Matrix: Solid
Associated Lab Samples: 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.4	08/23/12 11:07	N2
Aliphatic (C09-C12)	mg/kg	ND	2.4	08/23/12 11:07	N2
Aromatic (C09-C10)	mg/kg	ND	2.4	08/23/12 11:07	N2
4-Bromofluorobenzene (FID) (S)	%	109	70-130	08/23/12 11:07	
4-Bromofluorobenzene (PID) (S)	%	95	70-130	08/23/12 11:07	

LABORATORY CONTROL SAMPLE & LCSD: 820193 820194

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	14.6	11.1	10.7	76	73	70-130	4	25	N2
Aliphatic (C09-C12)	mg/kg	14.6	12.8	12.3	88	85	30-130	4	25	N2
Aromatic (C09-C10)	mg/kg	4.9	4.8	4.6	98	94	70-130	4	25	N2
4-Bromofluorobenzene (FID) (S)	%				96	93	70-130			
4-Bromofluorobenzene (PID) (S)	%				95	93	70-130			

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: MPRP/11294 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

METHOD BLANK: 816694 — Matrix: Solid
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	08/17/12 20:42	
Lead	mg/kg	ND	0.50	08/17/12 20:42	

LABORATORY CONTROL SAMPLE: 816695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	48.9	98	80-120	
Lead	mg/kg	50	48.1	96	80-120	

MATRIX SPIKE SAMPLE: 816696

Parameter	Units	92126722005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	1.4	61.3	60.1	96	75-125	
Lead	mg/kg	4.8	61.3	60.7	91	75-125	

SAMPLE DUPLICATE: 816698

Parameter	Units	92127618001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/kg	1.20 ug/g	1.2	1	20	
Lead	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: MSV/20106 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

METHOD BLANK: 815889 Matrix: Solid
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,1,1-Trichloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,1,2-Trichloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,1-Dichloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,1-Dichloroethene	ug/kg	ND	5.2	08/16/12 11:28	
1,1-Dichloropropene	ug/kg	ND	5.2	08/16/12 11:28	
1,2,3-Trichlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,2,3-Trichloropropane	ug/kg	ND	5.2	08/16/12 11:28	
1,2,4-Trichlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,2,4-Trimethylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.2	08/16/12 11:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.2	08/16/12 11:28	
1,2-Dichlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,2-Dichloroethane	ug/kg	ND	5.2	08/16/12 11:28	
1,2-Dichloropropane	ug/kg	ND	5.2	08/16/12 11:28	
1,3,5-Trimethylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,3-Dichlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
1,3-Dichloropropane	ug/kg	ND	5.2	08/16/12 11:28	
1,4-Dichlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
2,2-Dichloropropane	ug/kg	ND	5.2	08/16/12 11:28	
2-Butanone (MEK)	ug/kg	ND	104	08/16/12 11:28	
2-Chlorotoluene	ug/kg	ND	5.2	08/16/12 11:28	
2-Hexanone	ug/kg	ND	52.0	08/16/12 11:28	
4-Chlorotoluene	ug/kg	ND	5.2	08/16/12 11:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	52.0	08/16/12 11:28	
Acetone	ug/kg	ND	104	08/16/12 11:28	
Benzene	ug/kg	ND	5.2	08/16/12 11:28	
Bromobenzene	ug/kg	ND	5.2	08/16/12 11:28	
Bromochloromethane	ug/kg	ND	5.2	08/16/12 11:28	
Bromodichloromethane	ug/kg	ND	5.2	08/16/12 11:28	
Bromoform	ug/kg	ND	5.2	08/16/12 11:28	
Bromomethane	ug/kg	ND	10.4	08/16/12 11:28	
Carbon tetrachloride	ug/kg	ND	5.2	08/16/12 11:28	
Chlorobenzene	ug/kg	ND	5.2	08/16/12 11:28	
Chloroethane	ug/kg	ND	10.4	08/16/12 11:28	
Chloroform	ug/kg	ND	5.2	08/16/12 11:28	
Chloromethane	ug/kg	ND	10.4	08/16/12 11:28	
cis-1,2-Dichloroethene	ug/kg	ND	5.2	08/16/12 11:28	
cis-1,3-Dichloropropene	ug/kg	ND	5.2	08/16/12 11:28	
Dibromochloromethane	ug/kg	ND	5.2	08/16/12 11:28	
Dibromomethane	ug/kg	ND	5.2	08/16/12 11:28	
Dichlorodifluoromethane	ug/kg	ND	10.4	08/16/12 11:28	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

METHOD BLANK: 815889 Matrix: Solid

Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.2	08/16/12 11:28	
Ethylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
Hexachloro-1,3-butadiene	ug/kg	ND	5.2	08/16/12 11:28	
Isopropylbenzene (Cumene)	ug/kg	ND	5.2	08/16/12 11:28	
m&p-Xylene	ug/kg	ND	10.4	08/16/12 11:28	
Methyl-tert-butyl ether	ug/kg	ND	5.2	08/16/12 11:28	
Methylene Chloride	ug/kg	ND	20.8	08/16/12 11:28	
n-Butylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
n-Propylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
Naphthalene	ug/kg	ND	5.2	08/16/12 11:28	
o-Xylene	ug/kg	ND	5.2	08/16/12 11:28	
p-Isopropyltoluene	ug/kg	ND	5.2	08/16/12 11:28	
sec-Butylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
Styrene	ug/kg	ND	5.2	08/16/12 11:28	
tert-Butylbenzene	ug/kg	ND	5.2	08/16/12 11:28	
Tetrachloroethene	ug/kg	ND	5.2	08/16/12 11:28	
Toluene	ug/kg	ND	5.2	08/16/12 11:28	
trans-1,2-Dichloroethene	ug/kg	ND	5.2	08/16/12 11:28	
trans-1,3-Dichloropropene	ug/kg	ND	5.2	08/16/12 11:28	
Trichloroethene	ug/kg	ND	5.2	08/16/12 11:28	
Trichlorofluoromethane	ug/kg	ND	5.2	08/16/12 11:28	
Vinyl acetate	ug/kg	ND	52.0	08/16/12 11:28	
Vinyl chloride	ug/kg	ND	10.4	08/16/12 11:28	
Xylene (Total)	ug/kg	ND	10.4	08/16/12 11:28	
1,2-Dichloroethane-d4 (S)	%	91	70-132	08/16/12 11:28	
4-Bromofluorobenzene (S)	%	101	70-130	08/16/12 11:28	
Dibromofluoromethane (S)	%	94	70-130	08/16/12 11:28	
Toluene-d8 (S)	%	92	70-130	08/16/12 11:28	

LABORATORY CONTROL SAMPLE: 815890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	49.9	49.6	99	70-131	
1,1,1-Trichloroethane	ug/kg	49.9	43.2	87	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	49.9	51.6	103	70-130	
1,1,2-Trichloroethane	ug/kg	49.9	53.7	108	70-132	
1,1-Dichloroethane	ug/kg	49.9	43.0	86	70-143	
1,1-Dichloroethene	ug/kg	49.9	44.6	89	70-137	
1,1-Dichloropropene	ug/kg	49.9	41.7	84	70-135	
1,2,3-Trichlorobenzene	ug/kg	49.9	53.6	107	69-153	
1,2,3-Trichloropropane	ug/kg	49.9	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/kg	49.9	52.9	106	55-171	
1,2,4-Trimethylbenzene	ug/kg	49.9	47.5	95	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	49.9	55.6	111	68-141	
1,2-Dibromoethane (EDB)	ug/kg	49.9	52.0	104	70-130	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

LABORATORY CONTROL SAMPLE: 815890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	49.9	50.4	101	70-140	
1,2-Dichloroethane	ug/kg	49.9	44.0	88	70-137	
1,2-Dichloropropane	ug/kg	49.9	48.4	97	70-133	
1,3,5-Trimethylbenzene	ug/kg	49.9	47.6	95	70-143	
1,3-Dichlorobenzene	ug/kg	49.9	48.7	98	70-144	
1,3-Dichloropropane	ug/kg	49.9	48.6	97	70-132	
1,4-Dichlorobenzene	ug/kg	49.9	50.1	100	70-142	
2,2-Dichloropropane	ug/kg	49.9	41.1	82	68-152	
2-Butanone (MEK)	ug/kg	99.8	115	115	70-149	
2-Chlorotoluene	ug/kg	49.9	46.6	93	70-141	
2-Hexanone	ug/kg	99.8	119	119	70-149	
4-Chlorotoluene	ug/kg	49.9	47.0	94	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	99.8	126	126	70-153	
Acetone	ug/kg	99.8	124	124	70-157	
Benzene	ug/kg	49.9	51.3	103	70-130	
Bromobenzene	ug/kg	49.9	46.8	94	70-141	
Bromochloromethane	ug/kg	49.9	48.2	97	70-149	
Bromodichloromethane	ug/kg	49.9	49.8	100	70-130	
Bromoform	ug/kg	49.9	55.5	111	70-131	
Bromomethane	ug/kg	49.9	54.0	108	64-136	
Carbon tetrachloride	ug/kg	49.9	47.7	96	70-154	
Chlorobenzene	ug/kg	49.9	50.4	101	70-135	
Chloroethane	ug/kg	49.9	50.3	101	68-151	
Chloroform	ug/kg	49.9	43.8	88	70-130	
Chloromethane	ug/kg	49.9	44.1	88	70-132	
cis-1,2-Dichloroethene	ug/kg	49.9	43.2	87	70-140	
cis-1,3-Dichloropropene	ug/kg	49.9	51.9	104	70-137	
Dibromochloromethane	ug/kg	49.9	51.3	103	70-130	
Dibromomethane	ug/kg	49.9	51.0	102	70-136	
Dichlorodifluoromethane	ug/kg	49.9	43.7	88	36-148	
Diisopropyl ether	ug/kg	49.9	42.5	85	70-139	
Ethylbenzene	ug/kg	49.9	48.3	97	70-137	
Hexachloro-1,3-butadiene	ug/kg	49.9	49.2	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	49.9	46.9	94	70-141	
m&p-Xylene	ug/kg	99.8	98.6	99	70-140	
Methyl-tert-butyl ether	ug/kg	49.9	46.6	93	45-150	
Methylene Chloride	ug/kg	49.9	43.9	88	70-133	
n-Butylbenzene	ug/kg	49.9	47.8	96	65-155	
n-Propylbenzene	ug/kg	49.9	45.8	92	70-148	
Naphthalene	ug/kg	49.9	54.7	110	70-148	
o-Xylene	ug/kg	49.9	48.1	96	70-141	
p-Isopropyltoluene	ug/kg	49.9	49.2	99	70-148	
sec-Butylbenzene	ug/kg	49.9	47.5	95	70-145	
Styrene	ug/kg	49.9	50.3	101	70-138	
tert-Butylbenzene	ug/kg	49.9	47.1	94	70-143	
Tetrachloroethene	ug/kg	49.9	51.3	103	70-140	
Toluene	ug/kg	49.9	48.6	97	70-130	
trans-1,2-Dichloroethene	ug/kg	49.9	42.7	86	70-136	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

LABORATORY CONTROL SAMPLE: 815890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	49.9	54.5	109	70-138	
Trichloroethene	ug/kg	49.9	51.8	104	70-132	
Trichlorofluoromethane	ug/kg	49.9	47.4	95	69-134	
Vinyl acetate	ug/kg	99.8	135	136	24-161	
Vinyl chloride	ug/kg	49.9	43.9	88	55-140	
Xylene (Total)	ug/kg	150	147	98	70-141	
1,2-Dichloroethane-d4 (S)	%			87	70-132	
4-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 816364

Parameter	Units	92128086002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	62.1	41.1	66	49-180	
Benzene	ug/kg	ND	62.1	43.5	70	50-166	
Chlorobenzene	ug/kg	ND	62.1	51.9	83	43-169	
Toluene	ug/kg	ND	62.1	49.5	80	52-163	
Trichloroethene	ug/kg	ND	62.1	53.8	87	49-167	
1,2-Dichloroethane-d4 (S)	%				91	70-132	
4-Bromofluorobenzene (S)	%				102	70-130	
Dibromofluoromethane (S)	%				91	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 816363

Parameter	Units	92127960001 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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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

SAMPLE DUPLICATE: 816363

Parameter	Units	92127960001 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	11J		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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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

SAMPLE DUPLICATE: 816363

Parameter	Units	92127960001 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	96	16		
4-Bromofluorobenzene (S)	%	103	94	7		
Dibromofluoromethane (S)	%	99	95	13		
Toluene-d8 (S)	%	93	98	21		

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: OEXT/18603 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 — Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92128134001, 92128134002, 92128134003

METHOD BLANK: 815554 — Matrix: Solid
Associated Lab Samples: 92128134001, 92128134002, 92128134003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	08/17/12 16:45	
n-Pentacosane (S)	%	91	41-119	08/17/12 16:45	

LABORATORY CONTROL SAMPLE: 815555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	39.7	60	49-113	
n-Pentacosane (S)	%			85	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 815556 815557

Parameter	Units	92127960001 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	12.6	78	78	57.2	55.7	57	55	10-146	3	30	
n-Pentacosane (S)	%						88	91	41-119			

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: OEXT/18606 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

METHOD BLANK: 815790 Matrix: Solid
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	08/17/12 12:39	
1,2-Dichlorobenzene	ug/kg	ND	330	08/17/12 12:39	
1,3-Dichlorobenzene	ug/kg	ND	330	08/17/12 12:39	
1,4-Dichlorobenzene	ug/kg	ND	330	08/17/12 12:39	
1-Methylnaphthalene	ug/kg	ND	330	08/17/12 12:39	
2,4,5-Trichlorophenol	ug/kg	ND	330	08/17/12 12:39	
2,4,6-Trichlorophenol	ug/kg	ND	330	08/17/12 12:39	
2,4-Dichlorophenol	ug/kg	ND	330	08/17/12 12:39	
2,4-Dimethylphenol	ug/kg	ND	330	08/17/12 12:39	
2,4-Dinitrophenol	ug/kg	ND	1650	08/17/12 12:39	
2,4-Dinitrotoluene	ug/kg	ND	330	08/17/12 12:39	
2,6-Dinitrotoluene	ug/kg	ND	330	08/17/12 12:39	
2-Chloronaphthalene	ug/kg	ND	330	08/17/12 12:39	
2-Chlorophenol	ug/kg	ND	330	08/17/12 12:39	
2-Methylnaphthalene	ug/kg	ND	330	08/17/12 12:39	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	08/17/12 12:39	
2-Nitroaniline	ug/kg	ND	1650	08/17/12 12:39	
2-Nitrophenol	ug/kg	ND	330	08/17/12 12:39	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	08/17/12 12:39	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	08/17/12 12:39	
3-Nitroaniline	ug/kg	ND	1650	08/17/12 12:39	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	08/17/12 12:39	
4-Bromophenylphenyl ether	ug/kg	ND	330	08/17/12 12:39	
4-Chloro-3-methylphenol	ug/kg	ND	660	08/17/12 12:39	
4-Chloroaniline	ug/kg	ND	1650	08/17/12 12:39	
4-Chlorophenylphenyl ether	ug/kg	ND	330	08/17/12 12:39	
4-Nitroaniline	ug/kg	ND	660	08/17/12 12:39	
4-Nitrophenol	ug/kg	ND	1650	08/17/12 12:39	
Acenaphthene	ug/kg	ND	330	08/17/12 12:39	
Acenaphthylene	ug/kg	ND	330	08/17/12 12:39	
Aniline	ug/kg	ND	330	08/17/12 12:39	
Anthracene	ug/kg	ND	330	08/17/12 12:39	
Benzo(a)anthracene	ug/kg	ND	330	08/17/12 12:39	
Benzo(a)pyrene	ug/kg	ND	330	08/17/12 12:39	
Benzo(b)fluoranthene	ug/kg	ND	330	08/17/12 12:39	
Benzo(g,h,i)perylene	ug/kg	ND	330	08/17/12 12:39	
Benzo(k)fluoranthene	ug/kg	ND	330	08/17/12 12:39	
Benzoic Acid	ug/kg	ND	1650	08/17/12 12:39	
Benzyl alcohol	ug/kg	ND	660	08/17/12 12:39	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	08/17/12 12:39	
bis(2-Chloroethyl) ether	ug/kg	ND	330	08/17/12 12:39	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	08/17/12 12:39	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	08/17/12 12:39	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

METHOD BLANK: 815790 Matrix: Solid

Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	08/17/12 12:39	
Chrysene	ug/kg	ND	330	08/17/12 12:39	
Di-n-butylphthalate	ug/kg	ND	330	08/17/12 12:39	
Di-n-octylphthalate	ug/kg	ND	330	08/17/12 12:39	
Dibenz(a,h)anthracene	ug/kg	ND	330	08/17/12 12:39	
Dibenzofuran	ug/kg	ND	330	08/17/12 12:39	
Diethylphthalate	ug/kg	ND	330	08/17/12 12:39	
Dimethylphthalate	ug/kg	ND	330	08/17/12 12:39	
Fluoranthene	ug/kg	ND	330	08/17/12 12:39	
Fluorene	ug/kg	ND	330	08/17/12 12:39	
Hexachloro-1,3-butadiene	ug/kg	ND	330	08/17/12 12:39	
Hexachlorobenzene	ug/kg	ND	330	08/17/12 12:39	
Hexachlorocyclopentadiene	ug/kg	ND	330	08/17/12 12:39	
Hexachloroethane	ug/kg	ND	330	08/17/12 12:39	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	08/17/12 12:39	
Isophorone	ug/kg	ND	330	08/17/12 12:39	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	08/17/12 12:39	
N-Nitrosodimethylamine	ug/kg	ND	330	08/17/12 12:39	
N-Nitrosodiphenylamine	ug/kg	ND	330	08/17/12 12:39	
Naphthalene	ug/kg	ND	330	08/17/12 12:39	
Nitrobenzene	ug/kg	ND	330	08/17/12 12:39	
Pentachlorophenol	ug/kg	ND	1650	08/17/12 12:39	
Phenanthrene	ug/kg	ND	330	08/17/12 12:39	
Phenol	ug/kg	ND	330	08/17/12 12:39	
Pyrene	ug/kg	ND	330	08/17/12 12:39	
2,4,6-Tribromophenol (S)	%	67	27-110	08/17/12 12:39	
2-Fluorobiphenyl (S)	%	69	30-110	08/17/12 12:39	
2-Fluorophenol (S)	%	64	13-110	08/17/12 12:39	
Nitrobenzene-d5 (S)	%	69	23-110	08/17/12 12:39	
Phenol-d6 (S)	%	67	22-110	08/17/12 12:39	
Terphenyl-d14 (S)	%	74	28-110	08/17/12 12:39	

LABORATORY CONTROL SAMPLE: 815791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1200	72	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1140	68	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1120	67	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1130	68	35-110	
1-Methylnaphthalene	ug/kg	1670	1210	73	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1200	72	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1260	76	45-111	
2,4-Dichlorophenol	ug/kg	1670	1310	79	51-116	
2,4-Dimethylphenol	ug/kg	1670	1320	79	42-103	
2,4-Dinitrophenol	ug/kg	8330	4960	60	28-103	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

LABORATORY CONTROL SAMPLE: 815791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	997	60	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1020	61	48-112	
2-Chloronaphthalene	ug/kg	1670	1150	69	44-105	
2-Chlorophenol	ug/kg	1670	1220	73	36-110	
2-Methylnaphthalene	ug/kg	1670	1150	69	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1190	71	39-101	
2-Nitroaniline	ug/kg	3330	2520	76	44-111	
2-Nitrophenol	ug/kg	1670	1270	76	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1160	69	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2540	76	10-150	
3-Nitroaniline	ug/kg	3330	2270	68	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2300	69	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1260	76	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2550	76	43-127	
4-Chloroaniline	ug/kg	3330	2220	66	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1180	71	44-115	
4-Nitroaniline	ug/kg	3330	2330	70	37-111	
4-Nitrophenol	ug/kg	8330	6700	80	21-152	
Acenaphthene	ug/kg	1670	1220	73	38-117	
Acenaphthylene	ug/kg	1670	1190	72	46-107	
Aniline	ug/kg	1670	1110	67	29-110	
Anthracene	ug/kg	1670	1270	76	50-110	
Benzo(a)anthracene	ug/kg	1670	1310	79	47-116	
Benzo(a)pyrene	ug/kg	1670	1240	74	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1240	74	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1270	76	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1150	69	45-117	
Benzoic Acid	ug/kg	8330	1180J	14	16-110	L2
Benzyl alcohol	ug/kg	3330	2400	72	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1130	68	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1210	73	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1160	69	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1230	74	35-116	
Butylbenzylphthalate	ug/kg	1670	1200	72	38-110	
Chrysene	ug/kg	1670	1280	77	49-110	
Di-n-butylphthalate	ug/kg	1670	1110	67	43-109	
Di-n-octylphthalate	ug/kg	1670	1170	70	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1260	75	43-116	
Dibenzofuran	ug/kg	1670	1210	73	45-106	
Diethylphthalate	ug/kg	1670	1040	62	41-114	
Dimethylphthalate	ug/kg	1670	1040	62	43-110	
Fluoranthene	ug/kg	1670	1240	74	50-114	
Fluorene	ug/kg	1670	1140	68	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1270	76	28-111	
Hexachlorobenzene	ug/kg	1670	1220	73	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	1460	88	18-119	
Hexachloroethane	ug/kg	1670	1130	68	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1290	78	42-115	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

LABORATORY CONTROL SAMPLE: 815791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	972	58	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1160	70	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1220	73	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1250	75	48-113	
Naphthalene	ug/kg	1670	1230	74	41-110	
Nitrobenzene	ug/kg	1670	1020	61	38-110	
Pentachlorophenol	ug/kg	3330	1310J	39	32-128	
Phenanthrene	ug/kg	1670	1210	73	50-110	
Phenol	ug/kg	1670	1220	73	28-106	
Pyrene	ug/kg	1670	1320	79	45-114	
2,4,6-Tribromophenol (S)	%			72	27-110	
2-Fluorobiphenyl (S)	%			68	30-110	
2-Fluorophenol (S)	%			64	13-110	
Nitrobenzene-d5 (S)	%			70	23-110	
Phenol-d6 (S)	%			63	22-110	
Terphenyl-d14 (S)	%			67	28-110	

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: OEXT/18591 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

METHOD BLANK: 814790 Matrix: Solid
Associated Lab Samples: 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	08/16/12 19:03	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	08/16/12 19:03	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	08/16/12 19:03	N2
2-Bromonaphthalene (S)	%	71	40-140	08/16/12 19:03	
2-Fluorobiphenyl (S)	%	72	40-140	08/16/12 19:03	
Nonatriacontane (S)	%	65	40-140	08/16/12 19:03	
o-Terphenyl (S)	%	59	40-140	08/16/12 19:03	

LABORATORY CONTROL SAMPLE & LCSD: 814791 814792

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	64	65	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.3	10.2	ND	77	73	40-140		50	N2
Aromatic (C11-C22)	mg/kg	28.3	20.0	17.9	71	63	40-140	11	50	N2
2-Bromonaphthalene (S)	%				67	73	40-140			
2-Fluorobiphenyl (S)	%				76	83	40-140			
Nonatriacontane (S)	%				80	73	40-140			
o-Terphenyl (S)	%				60	71	40-140			

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QUALITY CONTROL DATA

Project: PPA021
Pace Project No.: 92128134

QC Batch: PMST/4935
Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92128134001, 92128134002, 92128134003, 92128134004, 92128134005, 92128134006, 92128134007, 92128134008

SAMPLE DUPLICATE: 815714

Parameter	Units	92126722005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.8	25.8	0	25	

SAMPLE DUPLICATE: 815715

Parameter	Units	92128094004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.6	21.6	0	25	

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QUALIFIERS

Project: PPA021
Pace Project No.: 92128134

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

1g	Data does not meet all conditions for compliance monitoring due to use of soil jars.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N2	The lab does not hold TNI accreditation for this parameter.
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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPA021
Pace Project No.: 92128134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92128134001	**T2-1 (2)**	EPA 3546	OEXT/18603	EPA 8015 Modified	GCSV/12678
92128134002	**T2-2 (2)**	EPA 3546	OEXT/18603	EPA 8015 Modified	GCSV/12678
92128134003	**SP-2**	EPA 3546	OEXT/18603	EPA 8015 Modified	GCSV/12678
92128134004	**SW-1 (7)**	MADEP EPH	OEXT/18591	MADEP EPH	GCSV/12673
92128134005	**SW-2 (7)**	MADEP EPH	OEXT/18591	MADEP EPH	GCSV/12673
92128134006	**SW-3 (7)**	MADEP EPH	OEXT/18591	MADEP EPH	GCSV/12673
92128134007	**SW-4 (7)**	MADEP EPH	OEXT/18591	MADEP EPH	GCSV/12673
92128134008	**B-1 (9)**	MADEP EPH	OEXT/18591	MADEP EPH	GCSV/12673
92128134001	**T2-1 (2)**	EPA 5035A/5030B	GCV/6189	EPA 8015 Modified	GCV/6191
92128134002	**T2-2 (2)**	EPA 5035A/5030B	GCV/6189	EPA 8015 Modified	GCV/6191
92128134003	**SP-2**	EPA 5035A/5030B	GCV/6189	EPA 8015 Modified	GCV/6191
92128134004	**SW-1 (7)**	MADEP VPH	GCV/6201	MADEP VPH	GCV/6202
92128134005	**SW-2 (7)**	MADEP VPH	GCV/6201	MADEP VPH	GCV/6202
92128134006	**SW-3 (7)**	MADEP VPH	GCV/6201	MADEP VPH	GCV/6202
92128134007	**SW-4 (7)**	MADEP VPH	GCV/6201	MADEP VPH	GCV/6202
92128134008	**B-1 (9)**	MADEP VPH	GCV/6205	MADEP VPH	GCV/6206
92128134004	**SW-1 (7)**	EPA 3050	MPRP/11294	EPA 6010	ICP/10362
92128134005	**SW-2 (7)**	EPA 3050	MPRP/11294	EPA 6010	ICP/10362
92128134006	**SW-3 (7)**	EPA 3050	MPRP/11294	EPA 6010	ICP/10362
92128134007	**SW-4 (7)**	EPA 3050	MPRP/11294	EPA 6010	ICP/10362
92128134008	**B-1 (9)**	EPA 3050	MPRP/11294	EPA 6010	ICP/10362
92128134004	**SW-1 (7)**	EPA 3546	OEXT/18606	EPA 8270	MSSV/6632
92128134005	**SW-2 (7)**	EPA 3546	OEXT/18606	EPA 8270	MSSV/6632
92128134006	**SW-3 (7)**	EPA 3546	OEXT/18606	EPA 8270	MSSV/6632
92128134007	**SW-4 (7)**	EPA 3546	OEXT/18606	EPA 8270	MSSV/6632
92128134008	**B-1 (9)**	EPA 3546	OEXT/18606	EPA 8270	MSSV/6632
92128134004	**SW-1 (7)**	EPA 8260	MSV/20106		
92128134005	**SW-2 (7)**	EPA 8260	MSV/20106		
92128134006	**SW-3 (7)**	EPA 8260	MSV/20106		
92128134007	**SW-4 (7)**	EPA 8260	MSV/20106		
92128134008	**B-1 (9)**	EPA 8260	MSV/20106		
92128134001	**T2-1 (2)**	ASTM D2974-87	PMST/4935		
92128134002	**T2-2 (2)**	ASTM D2974-87	PMST/4935		
92128134003	**SP-2**	ASTM D2974-87	PMST/4935		
92128134004	**SW-1 (7)**	ASTM D2974-87	PMST/4935		
92128134005	**SW-2 (7)**	ASTM D2974-87	PMST/4935		
92128134006	**SW-3 (7)**	ASTM D2974-87	PMST/4935		
92128134007	**SW-4 (7)**	ASTM D2974-87	PMST/4935		
92128134008	**B-1 (9)**	ASTM D2974-87	PMST/4935		

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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.

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1652561

Section A Required Client Information:

Company: Hart + Hickman
Address: 2923 S Tryon St
Charlotte NC 28203
Email To: shart@harthickman.com
Phone: 704 5860007 Fax:
Requested Due Date/TAT: 5 day

Section B Required Project Information:

Report To: Steve Hart
Copy To: John Lopez
Purchase Order No.: PPA021
Project Name:
Project Number: PPA021

Section C Invoice Information:

Attention: Cynthia Wells
Company Name: H+H
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

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	TPH-D/G	VOCs	SVOCs	VPH	EPH	Cr, Pb						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	T2-1 (2)	SL	G			8/5/12	1000		4	2						2			X												001
2	T2-2 (2)	SL	G			↓	1005		4	2						2			X												002
3	SW-1 (7)	SL	G				1400		10	5					1	4				X	X	X	X	X							004
4	SW-2 (7)	SL	G				1405		10	5					1	4				X	X	X	X	X							005
5	SW-3 (7)	SL	G				1410		10	5					1	4				X	X	X	X	X							006
6	SW-4 (7)	SL	G				1415		10	5					1	4				X	X	X	X	X							007
7	B-1 (9)	SL	G			↓	1245		10	5					1	4				X	X	X	X	X							008
8	SP-2	SL	G			↓	1100		4	2						2			X												003
9																															
10																															
11																															
12																															

92128134

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] H+H	8/5/12	1610	[signature]	8/5/12	16:10	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John Lopez
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 8/5/12

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.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: HART & Hickman/PPA Project # 92128134

Where Received: [X] Huntersville [ ] Asheville [ ] Eden

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [X] Commercial [ ] Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

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

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None [X] Samples on ice, cooling process has begun

Temp Correction Factor **T1101:** No Correction **T1102:** No Correction

Corrected Cooler Temp.: 4.3 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RP 8/15/12

Comments:

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

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

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: [signature] **Date:** 8/15/12 **SRF Review:** [signature] **Date:** 8/17/12

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)