

**Underground Storage Tank
Closure Report
Former Hoffman BP
3377 North US Highway 1
Hoffman, North Carolina**

**H&H Job No. ROW-144
State Project R-2502A
WBS # 34438.1.1**

October 18, 2006



Hart & Hickman, PC
2923 S. Tryon Street
Suite 100
Charlotte, NC 28203

704
586-0007 phone
586-0373 fax

UNDERGROUND STORAGE TANK CLOSURE REPORT

I. General Information

A. Ownership of UST(s)

1. *Name of UST owner:*

Richard Bostic

2. *Owner address and telephone number:*

Property Owner:

Richard Bostic

PO Box 154

Hoffman, NC 28347

Phone Number Unknown

Tanks were removed within the NC DOT Right-of-Way:

NC DOT Contact – Cyrus Parker (919-250-4088). Mailing Address for NC DOT contact person is 1589 Mail Service Center, Raleigh, NC 27699-1589 4401

B. Facility Information

1. *Facility name:*

Former Hoffman BP

2. *Facility ID #:*

0-218195

3. *Facility address, telephone number and county:*

Former Hoffman BP

3377 North US 1

Hoffman, Richmond County, North Carolina

No Facility Phone Number (Property currently vacant)

Contact Phone Number (919) 250-4088 Attn: Mr. Cyrus Parker of NC DOT

C. Contacts

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

Mr. Cyrus Parker

GeoEnviromental Project Manager

1589 Mail Service Center

Raleigh, North Carolina 27699-1589

(919) 250-4088

2. *Name, address and telephone number of closure contractor:*
 Soil Solutions, Inc. (SSI)
 1703 Vargrave Street
 Winston-Salem, North Carolina 27107
 (336) 725-5844

3. *Name, address and telephone number of primary consultant:*
 Hart & Hickman, P.C.
 2923 South Tryon Street, Suite 100
 Charlotte, North Carolina 28203
 (704) 586-0007

4. *Name, address, telephone number, and State certification number of laboratory:*
 Pace Analytical Services, Inc.
 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 (704) 875-9092
 North Carolina Certification 37706

D. UST Information

Tank No.	Installation Date	Size in Gallons	Tank Dimensions	Last Contents	Other Contents (if any)
A	09/84	3,000	Diameter: 5.5', length: 18'	Diesel	None
B	09/92	5,000	Diameter: 8', length: 13.5'	Gasoline	None
C	09/92	6,000	Diameter: 8', length: 16'	Gasoline	None
D	09/92	4,000	Diameter: 5.3', length: 24'	Gasoline	None

*See attached Figure No. 2 for tank location.

The diesel UST was steel. The gasoline USTs were fiberglass-clad steel tanks. The USTs were in excellent condition.

E. Site Characteristics

1. *Describe any past releases at this site:*

None known from USTs. However, impacted soil was discovered in the vicinity of a former AST during site assessment activities for NC DOT in 2004. This soil was removed (13.70 tons) prior to the UST removals.

2. *Is the facility active or inactive at this time?*

The facility is currently inactive.

3. *Describe surrounding property use (for example, residential, commercial, farming, etc.):*

The site is located near Hoffman. Surrounding properties consist of vacant or agricultural land except for the Volunteer Fire Station to the northwest and a convenience store (current Hoffman BP) to the northeast. A site location map is included as Figure 1.

4. *Describe the site geology/hydrogeology:*

The subject site is located within the Coastal Plain Physiographic Province of North Carolina, which extends from the midlands of North Carolina to the coast. This province is divided into the Upper, Middle, and Lower Coastal Plain. The subject site is located within the Upper Coastal Plain which is characterized by gently seaward-dipping sequences of unconsolidated to partially consolidated sediments.

The hydrogeology of the Coastal Plan is characterized by aquifers situated in layers of sands and silts or highly permeable limestone which are confined and separated by units of clay and silts or low-permeability limestone.

Visual observation of soils encountered during the excavation of the UST and during soil sample collection (maximum depth of observation of approximately 11.5 feet below ground surface) indicate that tan to orange fine to medium sand are the predominant shallow soil type.

II. Closure Procedures

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

On September 11, 2006 H&H faxed the Notice of Intent (UST-3) form to the Fayetteville Regional Office of the North Carolina Department of Environment and Natural Resources (DENR) Mooresville Regional Office. A copy of the UST-3 form is attached as Appendix A. Appendix B contains a copy of the UST-2 Change in Service form. H&H also contacted the Richmond County Building Inspections Department and obtained a permit for the removal. Mr. Robert Hurst of Richmond County was present during the UST removals.

The UST removal activities were conducted on September 20 and 21, 2006 and the UST disposal documentation is included in Appendix C.

B. Note the amount of residual material pumped from the tank(s):

A total of 114 gallons of residual liquids were present within the four USTs at the time of closure and were removed prior to the UST removal.

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

A vac truck was mobilized to the site on September 19, 2006 to pump out residual liquids and they were hauled to the Soil Solutions facility in Winston Salem for proper disposal. A Certificate of Disposal and manifest for the fluids are included in Appendix D.

D. Excavation

1. Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping and/or pumps:

H&H mobilized on site on September 19 2006 to remove the USTs. The concrete was very thick and it was determined that a breaker would be required to uncover the USTs. Therefore, excavation and UST removal activities commenced on September 20, 2006. The USTs were located as indicated on Figure 2. The diesel UST dispenser was located directly at the UST. The gasoline USTs were located approximately 20 ft east of the dispenser island.

Upon removing overburden soils and exposing the USTs, the tanks were removed by excavating along the sides of the tanks until the tanks could be removed. The tanks were removed from the basin with a trackhoe via a chain and lifting the tanks out of the ground. No additional soils were excavated. The diesel UST excavation was approximately 24 ft x 14 ft by 9 ft deep. The gasoline USTs were located adjacent to each other and the excavation was approximately 29 ft x 34 ft by 11.5 ft deep.

SSI transported the UST off-site for disposal at Atlantic Scrap and Processing in Winston-Salem, North Carolina. The fiberglass coating the three gasoline USTs was transported to the City of Winston-Salem Landfill in Winston-Salem, North Carolina. The UST were disposed of in accordance with API 1604, 1987 "Removal and Disposal of Used Petroleum Underground Storage Tanks". A copy of the tank disposal certificate for the UST is included as Appendix C.

2. Note the depth of tank burial(s) (from land surface to top of tank):

The top of the USTs were located approximately 2.5 to 4 ft below ground surface.

3. *Quantity of soil removed:*

Only enough soil to remove the UST was excavated. Based on soil screening activities, it was determined that the overburden and soils beneath the USTs were not suspected to be impacted and were not removed from the site.

4. *Describe soil type(s):*

Shallow soils encountered during removal of the USTs were predominantly fine to medium sands.

5. *Type and source of backfill used:*

The basin was backfilled with clean fill obtained from a local quarry and the clean overburden material.

E. *Impacted Soil*

1. *Describe how it was determined what extent to excavate the soil:*

Soils encountered during the removal of the UST were screened with an OVA and observed for visual staining and odors. No soils exhibiting elevated OVA readings were noted in the excavations. Excavation proceeded to a depth allowing the USTs to be removed from the excavation,

2. *Describe method of temporary storage, sampling and treatment/disposal of soil:*

No impacted soil was encountered. Clean overburden was temporarily stockpiled on site and then placed back in the excavation.

III. Site Investigation

A. *Provide information of field screening and observations, include methods used to calibrate field screening instrument(s):*

During the UST removal activities, soils obtained during removal of the tank were screened in the field with an organic vapor analyzer with a photoionization detector (PID) for organic vapors. The PID was calibrated prior to its use against an isobutylene standard.

Field screening results of samples collected after tank removal did not indicate the presence of petroleum impacted soil.

B. *Describe soil sampling points and sampling procedures used:*

After removal of the USTs, two closure samples were collected from soil directly beneath the USTs, except for UST-D where three samples were collected due to the length of the UST (24 ft). Additionally, one soil sample was collected beneath the middle of the 20 ft run of the dispenser line and one collected at the dispenser area. The approximate locations of the soil samples are indicated on Figure 2.

The UST closure samples were analyzed for gasoline-range and diesel-range TPH by EPA Methods 3550/5030/8015M using EPA Method 5035 preparation. Soil samples were collected from the approximate center of the trackhoe bucket.

C. *Quality control measures:*

Soil samples were analyzed by Pace Analytical Services Inc., a North Carolina certified laboratory. Laboratory-supplied sample bottles were used for sample collection. A chain-of-custody record was completed for samples collected and included sample description, date collected, time collected, matrix, sample container information, and analyses required. The chain-of-custody was signed by H&H prior to placement in an iced cooler for hand delivery to the laboratory.

Disposable sample gloves were changed between each sampling location and clean sample containers were used to collect the samples. Sampling equipment was decontaminated between sampling locations.

D. *Investigation Results:*

The results of the soil sample analyses are summarized in Table 1. The laboratory data sheets and the chain-of-custody records are included in Appendix E.

No TPH detections in either the gasoline or diesel range were reported for the closure samples for the USTs, dispenser, or product lines.

E. *Ground Water Sampling*

Ground water was not encountered during excavation activities and no ground water samples were collected during excavation activities.

IV. Conclusions

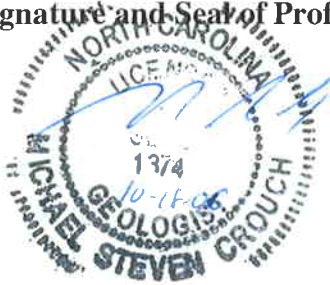
Include probable sources of contamination, further investigation or remediation tasks, or whether no further action is required.

Four USTs ranging from 3,000 to 6,000 gallons in capacity were removed from the site on September 20 and 21, 2006. A 3,000-gallon diesel UST was of steel construction and the remaining USTs were constructed of fiberglass-clad steel. A visual inspection of the

USTs indicated each was in excellent shape. The site is located near Hoffman and is a former convenience store and retail petroleum store (former Hoffman BP).

Two to three closure soil samples were collected directly beneath each UST depending on UST length and analyzed for TPH-GRO and TPH-DRO. Closure samples were also collected beneath the dispenser line and dispenser island. No field indicators of petroleum impact were noted and the closure samples did not contain detectable concentrations of TPH-DRO or TPH-GRO. Therefore H&H recommends the site be closed out and no further action is recommended or warranted.

V. Signature and Seal of Professional Engineer or Licensed Geologist



Michael S. Crouch PE, PG
Project Manager

VI. Enclosures

A. Figures

1. Site Location Map
2. Site Map and Soil Sample Locations

B. Table 1 – Summary of Soil Analytical Results – Closure Sampling

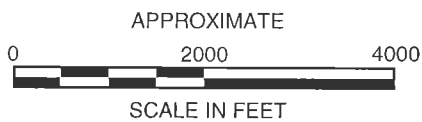
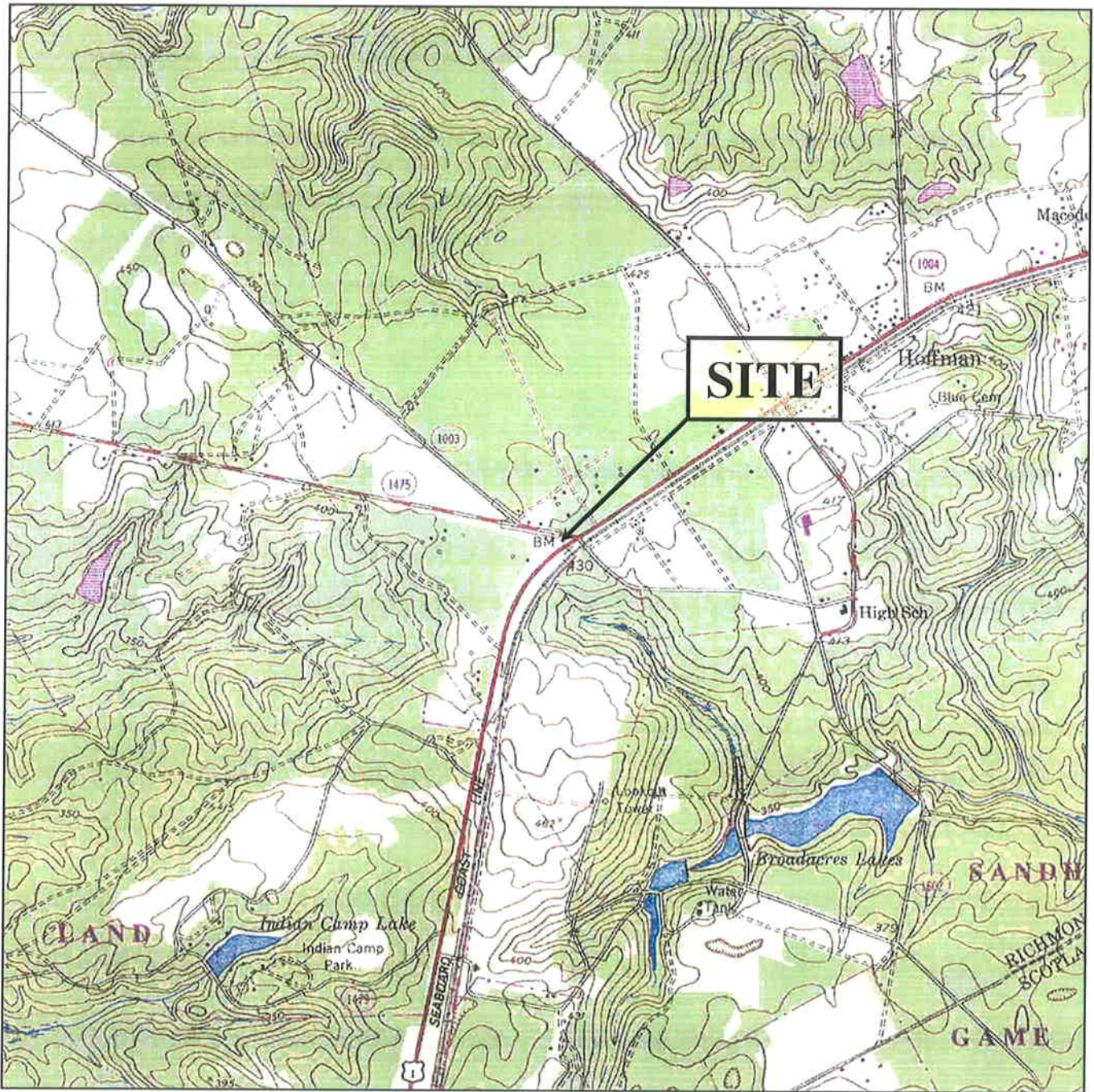
C. Appendices

- Appendix A: Notice of Intent (GW/UST-3)
Appendix B: Site Investigation Report for Permanent Closure or Change-in-Service (GW/UST-2)
Appendix C: Tank Disposal Certificate
Appendix D: Certificate of Disposal and Manifest - Fluid
Appendix E: Laboratory Data Sheets and Chain-of-Custody Records

Table 1
Summary of Soil Analytical Results - Closure Sampling
 Former Hoffman BP
 3377 North US Highway 1
 Hoffman, North Carolina
 H&H Job No. ROW-144

Sample ID	USTA-1	USTA-2	USTB-1	USTB-2	USTC-1	USTC-2	USTD-1	USTD-2	USTD-3	PL-1	PL-2	NC Action Level
	UST A (Diesel)	UST B (Gasoline)	UST C (Gasoline)	UST D (Gasoline)	Product Line	Dispenser Island						
Date Collected	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/21/2006	9/21/2006	9/21/2006	9/21/2006	9/21/2006	
Depth (ft)	9	9	11.5	11.5	11.5	11.5	8	8	8	2	2	
TPH												
Gasoline Range Organics (GRO)	<5.0	<5.4	<5.5	<4.3	<5.8	<5.6	<5.0	<5.6	<6.2	<6.3	<6.0	10
Diesel Range Organics (DRO)	<5.7	<5.4	<5.3	<5.3	<5.3	<5.3	<5.4	<5.4	<5.4	<5.3	<5.6	10


Notes:
 All Results in milligrams per kilogram (mg/kg)
 TPH = Total Petroleum Hydrocarbons

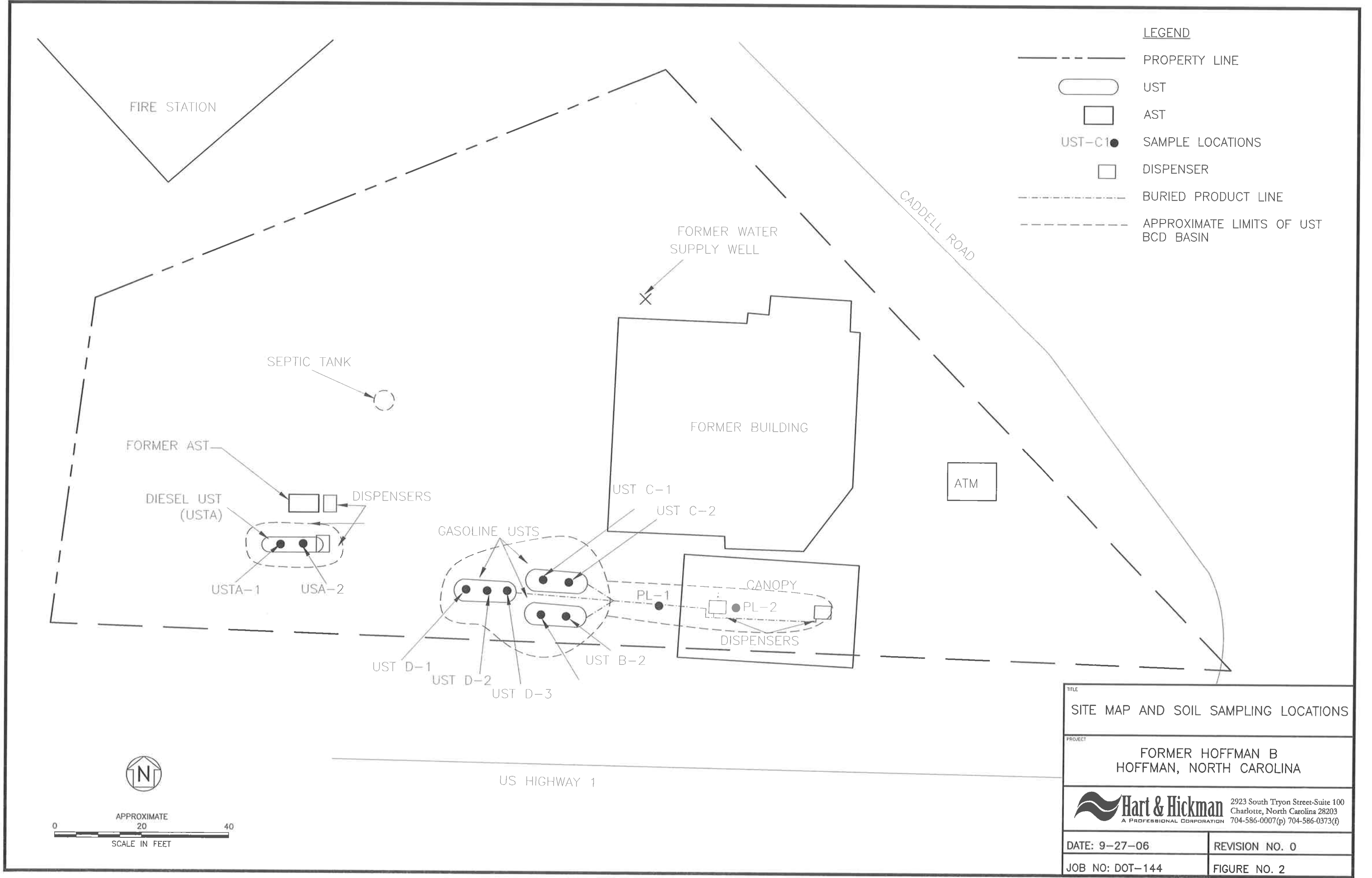


U.S.G.S. QUADRANGLE MAP

HOFFMAN, NC 1949 REVISED/INSPECTED 1982


QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP	
PROJECT	FORMER HOFFMAN BP HOFFMAN, NORTH CAROLINA	
	 Hart & Hickman 501 Minnet Lane-Suite 101 Charlotte, North Carolina 28217 A Professional Corporation (704)-586-0007 (704)-586-0373 fax	
DATE:	10-6-06	REVISION NO: 0
JOB NO:	ROW-144	FIGURE NO: 1



- LEGEND**
- PROPERTY LINE
 - UST
 - AST
 - UST-C1 SAMPLE LOCATIONS
 - DISPENSER
 - BURIED PRODUCT LINE
 - APPROXIMATE LIMITS OF UST BCD BASIN



TITLE SITE MAP AND SOIL SAMPLING LOCATIONS	
PROJECT FORMER HOFFMAN B HOFFMAN, NORTH CAROLINA	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 A PROFESSIONAL CORPORATION 704-586-0007(p) 704-586-0373(f)	
DATE: 9-27-06	REVISION NO. 0
JOB NO: DOT-144	FIGURE NO. 2

S:\AAA-Master Projects\NC DOT Right-of-Way\ROW-144 Hoffman BP UST Closure\Figures\Fig-02.dwg, 1:20

Appendix A

Notice of Intent (GW/UST-3)

UST-3 Notice of Intent: UST Permanent Closure of Change-in-Service

**FOR TANKS IN
NC**

Return completed form to:
The DWM Regional Office located in the area where the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.D. # _____
Date Received _____

INSTRUCTIONS

Complete and return at least five (5) working days prior to closure or change-in-service if a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports. Otherwise, a thirty (30) day notice is required.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Richard Bostick
PO Box 154
 Street Address Hoffman
 City NC County Richmond
 State NC Zip Code 28347
 Area Code _____ Phone Number UNKNOWN

II. LOCATION

Facility Name or Company Former Hoffman BP
 Facility ID # (If known) 0-218193
3377 N. US 1
 Street Address Hoffman Richmond County
 City (VACANT) County Richmond County Zip Code _____
 Area Code _____ Phone Number _____

III. CONTACT PERSONNEL

Name Mike Crouch Job Title Project Manager Phone Number 704-586-0007

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name Soil Solutions
 Address 1703 Vergone St Winston-Salem State NC Zip Code 27107
 Contact Person Cyrus Parker, LG, PE (NC DOT) Phone No. 919-250-4088
 Primary Consultant Holt & Mickman, PC Phone No. 704-586-0007

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID #	Tank Capacity	Last Contents	Proposed Activity		
			Removal	Abandonment in Place	Change-In-Service New Contents Stored
<u>1</u>	<u>3,000</u>	<u>Diesel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<u>2</u>	<u>4,000</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<u>3</u>	<u>5,000</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<u>4</u>	<u>6,000</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs. Read note on the back of this form before signing.

Print name and official title Michael S. Crouch PE as Agent for NC DOT

Signature [Signature] Date Signed 9/11/06 SCHEDULED REMOVAL DATE 9/18/06
 Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

* Note UST removals being done for NC DOT. DOT has acquired property under permanent easement.

Appendix B

Site Investigation Report for Permanent Closure or Change-in-Service (GW/UST-2)

UST-2

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

**FOR TANKS
IN
NC**

Return completed form to:

The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:

I.D. # _____

Date Received _____

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Richard Bostic (NO DOT required property under permanent easement)
 Street Address PO Box 114
 City Huffman County Richmond
 State NC Zip Code 28347
 Area Code _____ Phone Number _____

II. LOCATION OF TANKS

Facility Name or Company Former Huffman BP
 Facility ID # (if known) 0-218195
 Street Address 3377 North US I
 City Huffman County Richmond NC Zip Code 28347
 Area Code NA Phone Number _____

III. CONTACT PERSONNEL

Name Cyrus Parker (DOT) Job Title Project Manager Tel. No. 919-250-4088
 Closure Contractor Soil Solutions Address 1703 Vantage St Winston-Salem, NC 27107 Tel. No. 336-725-5844
 Primary Consultant Hart + Hickman, PC Address 2423 S. Tryon St, Suite 100 Charlotte, NC 28203 Tel. No. 704-566-0007
 Lab Pace Analytical Address 9600 Kinsey Ave Huntersville, NC 28078 Tel. No. 704-875-9093

IV. UST INFORMATION

V. EXCAVATION CONDITION

VI. ADDITIONAL INFORMATION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation		Free product		Notable odor or visible soil contamination	
				Yes	No	Yes	No	Yes	No
A	3,000	5'5" x 16'			X		X		X
B	5,000	8'1" x 13.5'			X		X		X
C	8,000	8' x 16'			X		X		X
D	4,000	5'3" x 24'			X		X		X

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

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

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

PERMANENT CLOSURE (For Removal or Abandonment-in-Place)

- Contact local fire marshal
- Notify DWM Regional Office before abandonment
- Drain and flush piping into tank
- Remove all product and residuals from tank
- Excavate down to tank
- Clean and inspect tank
- Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps, and all other tank fixtures
- Cap or plug all lines except the vent and fill lines
- Purge the tank of all product and flammable vapors
- Cut one or more large holes in the tank
- Backfill the area

Date tank(s) Permanently Closed: 9/21/06

Date of Change in-service: 9/21/06

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening
- Plug or cap all openings
- Disconnect and cap or remove vent line
- Solid inert material used --specify NA

REMOVAL

- Create vent hole
- Label tank
- Dispose of tank in approved manner. Final tank destination:

Atlantic Scrap & Processing, Winston-Salem, NC

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

Print name and official title of owner or owner's authorized representative

Michael S. Couch as agent for NC DOT

Signature

[Signature]

Date Signed

10-17-06

Appendix C
Tank Disposal Certificate



TANKS DISPOSAL CERTIFICATE

Tank Owner: NCDOT

Site Address: 3377 N. US 1
Hoffman, NC

Description of Tanks:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	6,000 Gallons	Gasoline
2	5,000 Gallons	Gasoline
3	4,000 Gallons	Gasoline
4	3,000 Gallons	Diesel

Transporter: Soil Solutions, Inc.

SSI Project #: 090620

Disposal Certification:

Soil Solutions, Inc. does hereby certify that the above named storage tanks were transported to Atlantic Scrap and Processing in Winston-Salem, NC for proper disposal and recycling. Soil Solutions, Inc. further certifies that the fiberglass which coated the first three storage tanks was removed and transported to the City of Winston-Salem Landfill in Winston-Salem, NC for proper disposal. The tanks were disposed of in accordance with API 1604, 1987 "Removal and Disposal of Used Underground Petroleum Storage Tanks." Excess residue was disposed of in accordance with US EPA regulations.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.



Appendix D

Certificate of Acceptance and Manifest - Fluid



SOIL SOLUTIONS

CERTIFICATE OF DISPOSAL

Soil Solutions, Inc. does hereby certify that 114 gallons of non-hazardous contaminated water received on 09/18/2006 from:

Generator: NCDOT

Originating at: 3377 N. US 1
Hoffman, NC

SSI Waste ID #: 090620

has been disposed of by Soil Solutions, Inc. in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.



1703 Vargrave Street Winston-Salem, NC 27107

(336) 725-5844 FAX (336) 725-6244

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **59772**

GENERATOR INFORMATION

Generator: NC DOT Hoffman BP
Site Address: Highway 1
City/State: Hoffman, NC

Phone: 704-586-0007
Contact: Mike Crouch

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: Water
Empty Weight (lbs): _____ Contaminant: Gas and Diesel
Net Weight (lbs): _____

Quantity

114

Tons _____ Drums _____ Pails _____ Sacs _____ Yards _____ Other: 601

TRANSPORTER INFORMATION

Transporter: HMHTTC Response, Inc.
Truck #: 6007

Phone: 336-885-2100
Contact: James Sizemore

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: 9-18-06

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: 090620

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: 09-18-2006

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

Appendix E

Laboratory Data Sheets and Chain-of-Custody Records

(Note: samples with AST designation do not pertain to UST closure or sampling. These samples were confirmation sampling for excavation of a surface release of petroleum from an AST which is not addressed in this UST Closure Report)



Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

October 03, 2006

Mr. Christopher A. Peoples
NC DOT
Materials & Test Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Lab Project Number: 92128324
Client Project ID: Hoffman BP/WBS#34438.1.1

Dear Mr. Peoples:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

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

Sincerely,

for

Annette Scott
annette.scott@pacelabs.com
(704) 875-9092 ext. 233
Project Manager

Enclosures

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627



Pace Analytical Services, Inc.
 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Solid results are reported on a dry weight basis

Lab Sample No: 927467829 Project Sample Number: 92128324-001 Date Collected: 09/19/06 13:10
 Client Sample ID: ASTRXBOT@5 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	11.6	%			1.0	09/25/06 17:39	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.7		1.1	09/27/06 15:21	KBS 68334-30-5		
n-Pentacosane (S)	82	%			1.0	09/27/06 15:21	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			

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 9800 Kincey Avenue, Suite 100
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 Phone: 704.875.9092
 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467845 Project Sample Number: 92128324-002 Date Collected: 09/19/06 13:10
 Client Sample ID: ASTRXESW@2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	7.3	%			1.0	09/25/06 17:40	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.4		1.1	10/02/06 10:50	KBS 68334-30-5		
n-Pentacosane (S)	97	%			1.0	10/02/06 10:50	KBS 629-99-2		
Date Extracted	09/29/06					09/29/06			

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 Fax: 704.875.9091

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 Asheville, NC 28804
 Phone: 828.254.7176
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467852 Project Sample Number: 92128324-003 Date Collected: 09/19/06 13:10
 Client Sample ID: ASTRXSSW@2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	10.0	%			1.0	09/25/06 17:40	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.6		1.1	09/27/06 17:52	KBS 68334-30-5		
n-Pentacosane (S)	62	%			1.0	09/27/06 17:52	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			

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 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467860 Project Sample Number: 92128324-004 Date Collected: 09/19/06 13:10
 Client Sample ID: ASTRXWSW@2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	8.6	%			1.0	09/25/06 17:41	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.5		1.1	09/27/06 15:42	KBS 68334-30-5		
n-Pentacosane (S)	81	%			1.0	09/27/06 15:42	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			

Date: 10/03/06

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 Fax: 704.875.9091

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 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467878 Project Sample Number: 92128324-005 Date Collected: 09/19/06 13:10
 Client Sample ID: ASTRXNSW@2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	24.0	%			1.0 09/25/06 17:41	TNM			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.6		1.3 09/29/06 13:30	KBS	68334-30-5		
n-Pentacosane (S)	68	%			1.0 09/29/06 13:30	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				

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 Fax: 704.875.9091

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 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467902 Project Sample Number: 92128324-006 Date Collected: 09/20/06 11:50
 Client Sample ID: USTA-1 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	11.8	%			1.0	09/25/06 18:01	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.7		1.1	09/28/06 02:15	KBS 68334-30-5		
n-Pentacosane (S)	72	%			1.0	09/28/06 02:15	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.0		1.0	09/28/06 19:22	DHW		
4-Bromofluorobenzene (S)	83	%			1.0	09/28/06 19:22	DHW 460-00-4		

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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927467910 Project Sample Number: 92128324-007 Date Collected: 09/20/06 11:50
 Client Sample ID: USTA-2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	7.5	%			1.0	09/25/06 18:01	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.4		1.1	09/28/06 01:54	KBS 68334-30-5		
n-Pentacosane (S)	76	%			1.0	09/28/06 01:54	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.4		1.1	09/28/06 20:17	DHW		
4-Bromofluorobenzene (S)	78	%			1.0	09/28/06 20:17	DHW 460-00-4		

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 2225 Riverside Drive
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468124 Project Sample Number: 92128324-014 Date Collected: 09/20/06 16:20
 Client Sample ID: USTB-1 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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Wet Chemistry

Percent Moisture	Method: % Moisture								
Percent Moisture	6.3	%			1.0 09/25/06 18:02	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.3		1.1 09/28/06 01:32	KBS	68334-30-5		
n-Pentacosane (S)	66	%			1.0 09/28/06 01:32	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.5		1.1 09/28/06 21:13	DHW			
4-Bromofluorobenzene (S)	78	%			1.0 09/28/06 21:13	DHW	460-00-4		

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 Fax: 704.875.9091

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 Asheville, NC 28804
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468140 Project Sample Number: 92128324-015 Date Collected: 09/20/06 16:25
 Client Sample ID: USTB-2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	5.5	%			1.0 09/26/06 15:39	TNM			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.3		1.1 09/28/06 01:11	KBS	68334-30-5		
n-Pentacosane (S)	81	%			1.0 09/28/06 01:11	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	4.3		0.9 09/28/06 21:40	DHW			
4-Bromofluorobenzene (S)	75	%			1.0 09/28/06 21:40	DHW	460-00-4		

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 Fax: 704.875.9091

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 Asheville, NC 28804
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468165 Project Sample Number: 92128324-016 Date Collected: 09/20/06 17:20
 Client Sample ID: USTC-1 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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Wet Chemistry

Percent Moisture	Method: % Moisture								
Percent Moisture	5.0	%			1.0 09/25/06 18:02	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.3		1.1 09/28/06 00:49	KBS	68334-30-5		
n-Pentacosane (S)	71	%			1.0 09/28/06 00:49	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.8		1.1 09/28/06 22:08	DHW			
4-Bromofluorobenzene (S)	76	%			1.0 09/28/06 22:08	DHW	460-00-4		

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 Asheville, NC 28804
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468173 Project Sample Number: 92128324-017 Date Collected: 09/20/06 17:25
 Client Sample ID: USTC-2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	5.5	%			1.0	09/25/06 18:03	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.3		1.1	09/28/06 00:27	KBS 68334-30-5		
n-Pentacosane (S)	81	%			1.0	09/28/06 00:27	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.6		1.1	09/28/06 22:36	DHW		
4-Bromofluorobenzene (S)	75	%			1.0	09/28/06 22:36	DHW 460-00-4		

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 Fax: 704.875.9091

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 Asheville, NC 28804
 Phone: 828.254.7176
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468181 Project Sample Number: 92128324-018 Date Collected: 09/21/06 10:15
 Client Sample ID: PL-1 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Wet Chemistry

Percent Moisture	Method: % Moisture								
Percent Moisture	5.3	%			1.0 09/25/06 18:03	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.3		1.1 09/28/06 00:06	KBS	68334-30-5		
n-Pentacosane (S)	56	%			1.0 09/28/06 00:06	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	6.3		1.2 09/28/06 23:03	DHW			
4-Bromofluorobenzene (S)	74	%			1.0 09/28/06 23:03	DHW	460-00-4		

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 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468199 Project Sample Number: 92128324-019 Date Collected: 09/21/06 13:00
 Client Sample ID: USTD-1 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	7.4	%			1.0	09/25/06 18:03	TNM		
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.4		1.1	09/27/06 23:01	KBS 68334-30-5		
n-Pentacosane (S)	59	%			1.0	09/27/06 23:01	KBS 629-99-2		
Date Extracted	09/25/06					09/25/06			
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.0		1.0	09/28/06 23:31	DHW		
4-Bromofluorobenzene (S)	82	%			1.0	09/28/06 23:31	DHW 460-00-4		

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 Asheville, NC 28804
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 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468215 Project Sample Number: 92128324-020 Date Collected: 09/21/06 13:05
 Client Sample ID: USTD-2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Wet Chemistry

Percent Moisture	Method: % Moisture								
Percent Moisture	8.1	%			1.0 09/25/06 18:04	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.4		1.1 09/27/06 23:23	KBS	68334-30-5		
n-Pentacosane (S)	70	%			1.0 09/27/06 23:23	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.6		1.1 09/28/06 23:58	DHW			
4-Bromofluorobenzene (S)	76	%			1.0 09/28/06 23:58	DHW	460-00-4		

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 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
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Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468223 Project Sample Number: 92128324-021 Date Collected: 09/21/06 13:10
 Client Sample ID: USTD-3 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	7.6	%			1.0 09/25/06 18:04	TNM			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.4		1.1 09/28/06 18:05	KBS	68334-30-5		
n-Pentacosane (S)	56	%			1.0 09/28/06 18:05	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	6.2		1.2 09/29/06 00:26	DHW			
4-Bromofluorobenzene (S)	77	%			1.0 09/29/06 00:26	DHW	460-00-4		

Asheville Certification IDs
 NC Wastewater 40
 NC Drinking Water 37712
 SC Environmental 99030
 FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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 NC Drinking Water 37706
 SC 99006
 FL NELAP E87627



Pace Analytical Services, Inc.
 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

Lab Sample No: 927468231 Project Sample Number: 92128324-022 Date Collected: 09/21/06 13:15
 Client Sample ID: PL-2 Matrix: Soil Date Received: 09/22/06 14:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	11.3	%			1.0 09/25/06 18:04	TNM			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	5.6		1.1 09/28/06 02:15	KBS	68334-30-5		
n-Pentacosane (S)	89	%			1.0 09/28/06 02:15	KBS	629-99-2		
Date Extracted	09/25/06				09/25/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	6.0		1.2 09/29/06 01:49	DHW			
4-Bromofluorobenzene (S)	77	%			1.0 09/29/06 01:49	DHW	460-00-4		

Date: 10/03/06

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Lab Project Number: 92128324
Client Project ID: Hoffman BP/WBS#34438.1.1

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

- ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

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 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168505 Analysis Method: EPA 8015
 QC Batch Method: EPA 3545 Analysis Description: TPH in Soil by 3545/8015
 Associated Lab Samples: 927467829 927467845 927467852 927467860 927467878

METHOD BLANK: 927472605
 Associated Lab Samples: 927467829 927467845 927467852 927467860 927467878

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	66		

LABORATORY CONTROL SAMPLE: 927472613

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Diesel Fuel	mg/kg	166.70	149.8	90	
n-Pentacosane (S)				109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927472621 927472639

<u>Parameter</u>	<u>Units</u>	<u>927467860 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MSD Result</u>	<u>MS % Rec</u>	<u>MSD % Rec</u>	<u>RPD</u>	<u>Footnotes</u>
Diesel Fuel	mg/kg	4.520	182.40	132.6	132.1	70	70	0	
n-Pentacosane (S)						83	92		

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 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
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 Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92128324

Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168558

Analysis Method: EPA 8015

QC Batch Method: EPA 3545

Analysis Description: TPH in Soil by 3545/8015

Associated Lab Samples:	927467902	927467910	927468124	927468140	927468165
	927468173	927468181	927468199	927468215	927468223
	927468231				

METHOD BLANK: 927475186

Associated Lab Samples:	927467902	927467910	927468124	927468140	927468165	927468173	927468181
	927468199	927468215	927468223	927468231			

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	60		

LABORATORY CONTROL SAMPLE: 927475194

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Diesel Fuel	mg/kg	166.70	124.9	75	
n-Pentacosane (S)				77	

LABORATORY CONTROL SAMPLE: 927488387

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Diesel Fuel	mg/kg	166.70	140.1	84	
n-Pentacosane (S)				143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927475202 927475210

Parameter	Units	927468140	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Diesel Fuel	mg/kg	1.846	176.30	113.6	126.7	63	71	11	
n-Pentacosane (S)						67	157		1

Date: 10/03/06

Page: 19 of 24

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 Huntersville, NC 28078
 Phone: 704.875.9092
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 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168856 Analysis Method: EPA 8015
 QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina
 Associated Lab Samples: 927467902 927467910 927468124 927468140 927468165
 927468173 927468181 927468199 927468215 927468223
 927468231

METHOD BLANK: 927493007
 Associated Lab Samples: 927467902 927467910 927468124 927468140 927468165 927468173 927468181
 927468199 927468215 927468223 927468231

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	85		

LABORATORY CONTROL SAMPLE: 927493015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Gasoline	mg/kg	25.00	32.47	130	
4-Bromofluorobenzene (S)				95	

MATRIX SPIKE: 927493031

Parameter	Units	927467910 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Gasoline	mg/kg	0.4888	26.82	31.46	116	
4-Bromofluorobenzene (S)					86	

SAMPLE DUPLICATE: 927493023

Parameter	Units	927467902 Result	DUP Result	RPD	Footnotes
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	83	78		

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 Phone: 828.254.7176
 Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168501	Analysis Method: % Moisture
QC Batch Method:	Analysis Description: Percent Moisture
Associated Lab Samples:	927467829 927467845 927467852 927467860 927467878

SAMPLE DUPLICATE: 927472548

<u>Parameter</u>	<u>Units</u>	927467829	DUP		
		<u>Result</u>	<u>Result</u>	<u>RPD</u>	<u>Footnotes</u>
Percent Moisture	%	11.60	10.90	6	

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 9800 Kinsey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

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 2225 Riverside Drive
 Asheville, NC 28804
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QUALITY CONTROL DATA

Lab Project Number: 92128324
 Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168502	Analysis Method: % Moisture				
QC Batch Method:	Analysis Description: Percent Moisture				
Associated Lab Samples:	927467902	927467910	927468124	927468165	927468173
	927468181	927468199	927468215	927468223	927468231

SAMPLE DUPLICATE: 927472514

<u>Parameter</u>	<u>Units</u>	927467662 <u>Result</u>	DUP <u>Result</u>	<u>RPD</u>	<u>Footnotes</u>
Percent Moisture	%	26.10	26.10	0	

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92128324

Client Project ID: Hoffman BP/WBS#34438.1.1

QC Batch: 168629 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927468140

SAMPLE DUPLICATE: 927478750

Parameter	Units	927476481	DUP	RPD	Footnotes
		Result	Result		
Percent Moisture	%	4.900	4.700	5	

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92128324
Client Project ID: Hoffman BP/WBS#34438.1.1

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

- LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate
[1] The surrogate and/or spike recovery was outside acceptance limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: _____
 Address: _____
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B

Required Project Information:

Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: _____
 Project Number: _____

Section C

Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA Other _____

SITE LOCATION

GA IL IN MI MN NC
 OH SC WI OTHER _____

ITEM #	Valid Matrix Codes	Required Client Information	MATRIX CODE	SAMPLE TYPE	G-GRAB C=COMP	COLLECTED		SAMPLER TEMP	# OF CONTAINERS	Preservatives							Filtered (Y/N)	Requested Analysis:	Pace Project Number	Lab ID
						COMPOSITE START	COMPOSITE END/GRAB			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	W	UST	W	G		10:00	10:00		3											
2	W	UST	W	G		10:10	10:10		2											
3	W	UST	W	G		10:15	10:15		2											
4	W	UST	W	G		10:20	10:20		2											
5	W	UST	W	G		10:25	10:25		2											
6	W	UST	W	G		10:30	10:30		2											
7	W	UST	W	G		10:35	10:35		2											
8	W	UST	W	G		10:40	10:40		2											
9	W	UST	W	G		10:45	10:45		2											
10	W	UST	W	G		10:50	10:50		2											
11	W	UST	W	G		10:55	10:55		2											
12	W	UST	W	G		11:00	11:00		2											

Additional Comments:

* Please hold until results of TPH/H₂A will instruct

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on site	Custody Sealed Cooler	Samples Intact

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



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:

Company: 20201111
Address: 1005338
Email To: 1005338
Phone: 1005338 Fax: 1005338
Requested Due Date/TAT: 1005338

Section B

Required Project Information:

Report To: 1005338
Copy To: 1005338
Purchase Order No.: 1005338
Project Name: 1005338
Project Number: 1005338

Section C

Invoice Information:

Attention: 1005338
Company Name: 1005338
Address: 1005338
Pace Quote Reference: 1005338
Pace Project Manager: 1005338
Pace Profile #: 1005338

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA Other

SITE LOCATION

GA IL IN MI MN NC
 OH SC WI OTHER

Section D

Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	DRINKING WATER	DW
WASTE WATER	WW	
PRODUCT	P	
SOIL/SOLID	SL	
OIL	OL	
WIPE	WP	
AIR	AR	
OTHER	OT	
TISSUE	TS	

ITEM #	SAMPLE ID	MATRIX CODE	G-GRAB C-COMP	COLLECTED		COMPOSITE END/GRAB	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Filtered (Y/N) Requested Analysis:	Pace Project Number Lab I.D
				DATE	TIME				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Residual Chlorine (Y/N)		
1	UTS	CDMSW-1	CL	13	13:25	8	8	2										
2	UST	CDUSW-2	CL	13	13:45	3	3	2										
3	UST	CDUSW-2	CL	13	13:50	3	3	2										
4	UST	CDUSW-2	CL	13	13:50	3	3	2										
5	UST	CDUSW-2	CL	13	13:50	3	3	2										
6	UST	CDUSW-2	CL	13	13:50	3	3	2										
7	UST	CDUSW-2	CL	13	13:50	3	3	2										
8	UST	CDUSW-2	CL	13	13:50	3	3	2										
9																		
10																		
11																		
12																		

Additional Comments:

one hold in 13:45
all well respect.

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITION

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
						Received
						on Ice
						Custody
						Sealed Cooler
						Samples
						Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY)

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3
1005339

Section A

Required Client Information:

Company: _____
 Address: _____
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B

Required Project Information:

Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: _____
 Project Number: _____

Section C

Invoice Information:

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

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA Other _____

SITE LOCATION
 GA IL IN MI MN NC
 OH SC WI OTHER _____

ITEM #	Valid Matrix Codes	Required Client Information	MATRIX CODE	SAMPLE TYPE	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Filtered (Y/N)	Requested Analysis:	Pace Project Number	Lab I.D.
					COMPOSITE START DATE	COMPOSITE END/GRAB TIME						
1	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
2	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
3	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
4	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
5	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
6	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
7	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
8	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
9	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
10	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
11	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			
12	AS	TR	Y30	TG5	10/26	15:10	1	Unpreserved	Y			

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
						Temp in °C
						Received
						on Ice
						Custody Cooler
						Samples Intact

Additional Comments:

* Please hold onto results if TPH / HPH will assist.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS