

June 26, 2006

Mr. Cyrus Parker, P.E., L.G.
North Carolina Department of Transportation
Geotechnical Unit
1020 Birch Ridge Drive, Bldg D
Raleigh, NC 27610

Re: Preliminary Site Assessment Reports

1. Parcel # 3 ~ BEBCO LLC Property
2. Parcel # 10 ~ All Points Trucking Inc.
3. Parcel # 19 ~ HH Downs LLC Property (Formerly
Known as the Billy Stegall Jr. Property)
4. Parcel # 22 ~ Gerald Rhyne Property.

WBS Element: 34948.1.1
State Project: U-3447
County: Mecklenburg
AMEC Project: 693003447

2005 CONTRACT

Dear Mr. Parker:

AMEC Earth & Environmental, Inc. of North Carolina (AMEC) is pleased to furnish the North Carolina Department of Transportation (NCDOT) with four copies of the above referenced reports. We will deliver digital copies of these reports after your review.

If you have any comments or questions concerning these reports, please do not hesitate to call me at 704.875-3570.

Regards,
AMEC Earth & Environmental, Inc. of North Carolina



Helen Corley, L.G.
Program Manager

Preliminary Site Assessment

**HH Downs LLC Property, Parcel #19
Mecklenburg County, North Carolina**

**NCDOT State Project: 34948.1.1 (U-3447)
AMEC Project: 693003447**

July 26, 2006

Prepared for:

**North Carolina Department of Transportation
Geotechnical Unit
1020 Birch Ridge Drive
Raleigh, NC 27610
Telephone: 919-250-4088**

Prepared By:

**AMEC Earth and Environmental, Inc. of North Carolina
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(704) 875-3570**

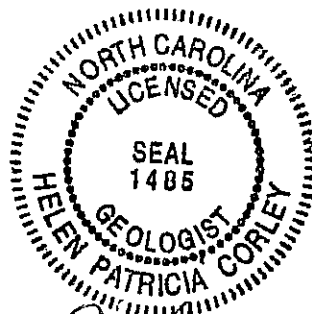
Preliminary Site Assessment

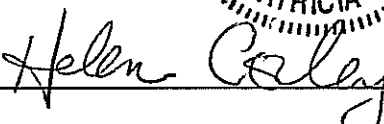
**HH Downs LLC Property, Parcel #19
Mecklenburg County, North Carolina
NCDOT State Project: 34948.1.1 (U-3447)
AMEC Project: 693003447**

**Prepared For:
North Carolina Department of Transportation
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July 26, 2006





**Helen P. Corley, L.G.
Senior Geologist/Project Manager**

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1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Notice to Proceed dated May 26, 2006, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for portions of the HH Downs LLC Property, Parcel #19 to be acquired for drainage improvements along Downs Road. The NCDOT originally recognized the property as Parcel #19, Billy Stegall, Jr. Property. During the course of the PSA it became known that the property had been acquired by HH Downs LLC. The property is located at 12600 Downs Road, Pineville, Mecklenburg County, North Carolina. The facility is occupied by Herlocker Mechanical, a commercial HVAC and plumbing contractor. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated May 22, 2006.

NCDOT contracted AMEC to perform a PSA on the HH Downs LLC Property due to past usage of the property. According to the NCDOT Request for Proposal a 3,000 gallon UST with unknown contents was reportedly removed from the property in 1996 and the building had a fire hazard placard indicating a fire hazard. The PSA was performed to determine if soils have been impacted by petroleum compounds as a result of past or present uses of the property located within the proposed right-of-way (ROW) including the course of the proposed drainage improvements.

The following report describes our field investigations and results of chemical analyses. It includes evaluation of the analytical data with regards to the presence or absence of soil contamination within the existing right-of-way (ROW) and estimates the extent of soil contamination.

1.1 Site Location

The HH Downs LLC Property Property is located on the west side of Downs Road approximately 150ft north of the Downs Circle intersection in Pineville, Mecklenburg County, North Carolina. It is located within the Piedmont physiographic province of south-central North Carolina.

Figure 1 shows the site location and vicinity and site photographs are shown in Appendix 1.

1.2 Site Description

The site is approximately a 0.88 acre parcel. A single story metal workshop which includes an office area occupies the site. Present at the site are a loading dock and a paved parking area.

Drainage improvements planned for the site will occur in the easement area having a length of 170 ft along the road and a width ranging from 30 to 60 ft. The proposed catch basin and drop inlet locations were targeted for the placement of soil borings.

Sample locations and the site layout are shown in Figure 2.

Adjacent properties included a vacant lot to the north, a residence to the south and west and commercial lots used for parking across Downs Road to the east. Parcel #22 Gerald Rhyne Property (auto body shop) is located southeast of the site.

2.0 GEOLOGY

2.1 Regional Geology

The HH Downs LLC Property Property is located in the Charlotte Belt of the Piedmont physiographic province of south central North Carolina. The Charlotte Belt is a complex series of Paleozoic metamorphic and igneous rocks consisting of metamorphosed granites, metagabbros and diorites, mafic and felsic metavolcanics, and granitic-to-mafic intrusive bodies.

2.2 Site Geology

Site geology was observed through the sampling of 11 direct push probe borings. Borings extended to a total depth of 8ft below ground surface (bgs). Soils generally consisted of a surficial fill of asphalt underlain by a thin layer of gravel with fines and fill to a depth of generally less than 1ft. Fill overlies the saprolite which consists of an orange brown clayey silt grading into a less weathered sandy silt. The direct push rig was very near refusal at the 8ft depth in many of the borings suggesting a relatively shallow depth to competent bedrock. The saprolite was generally wet below 5ft bgs. Gabbro appears to be the bedrock underlying the site. Boring logs are presented in Appendix 2.

Wet soils were encountered below 5ft bgs. The surficial aquifer appears to be present in the saprolite above the underlying bedrock. The local topography suggests that ground-water flow would be to the southeast in the site vicinity.

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HSP) was modified to include the site-specific health and safety information necessary for the field activities. North Carolina-1-Call was contacted to facilitate the location of underground utilities in the vicinity of selected boring locations. Environmental Drilling and Probing Services of Charlotte, NC (EDPS) was retained by AMEC to perform the direct push sampling. Pace Laboratories, Inc. was contacted for acquisition of sample bottles. Upon arrival at the site there was concern that some of the subsurface utilities had not been marked due to the presence of telephone risers without any markings. North Carolina-1-Call was again contacted and personnel were immediately dispatched to mark the conflicting utilities. The utilities were marked and the subsurface investigation was conducted without incident.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on May 11th and 18th, 2006. The area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the upcoming subsurface investigation.

Additional reconnaissance information was gathered on June 1, 2006. According the UST Closure Report (Enviro Consulting Inc., Matthews, NC - 1996) shown to AMEC personnel by Tom Herlocker, who is the owner of Herlocker Mechanical, a 3,000 gallon UST was closed by removal across Downs Road in 1996. The UST Closure Report, indicated elevated total petroleum hydrocarbons (TPH) in UST closure soil samples collected from 8ft bgs. The Report resulted in the NCDENR Incident Number 17171 being assigned to the release. The Report showed that the position of the UST was outside of the Parcel #19 study area. Mr. Herlocker indicated that a used oil AST was formerly located in the rear of the building but had been removed without incident. Mr. Herlocker indicated he had been unable to locate any evidence of additional tanks on this property.

3.3 Well Survey

No well survey was performed as part of this PSA and no water supply wells were observed by AMEC on the site. A water meter from the municipal water supply was observed on the property.

3.4 Soil Sampling

Eleven direct push soil borings were conducted within the construction easement parallel to Downs Road at an approximate spacing of 20ft. These samples were used to target the future drainage improvement structure locations as closely as possible and also to determine if a petroleum release had occurred within the easement. One transect of borings was placed perpendicular to Downs Road to assess all areas of the proposed drainage improvements. All of the borings were completed to a depth of 8ft bgs. The total depth of each boring was at the refusal depth (assumed depth to competent bedrock).

The sample locations are shown on Figure 2.

No evidence of potential soil contamination was identified by field observations (i.e. petroleum odors, petroleum staining, PID response) in any of the borings. PID screening results are incorporated in Table 1 and on the boring logs included as Appendix 2. No ground-water samples were collected.

Soil samples were collected in accordance with EPA protocols in laboratory-supplied containers. The soil samples for GRO analysis were collected using the 5030 prep method with methanol preservation. Samples for DRO analysis were collected in 4oz. glass containers. Once placed in the containers, the samples were labeled with the sample number, time of collection, date of collection, name of the collector, and the requested analysis. The samples were packed on ice, and then hand delivered to Pace Analytical, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

All equipment used for obtaining samples was decontaminated in accordance with EPA protocols. This included steam cleaning for the direct push equipment and the following for sampling tools:

- equipment thoroughly cleaned with a phosphorous-free detergent;
- rinsed with tap water;
- rinsed with methanol; and,
- rinsed with de-ionized water.

4.0 RESULTS

4.1 Soil Sampling Results

AMEC conducted soil sampling at the HH Downs LLC Property, Parcel #19 on June 1, 2006. The purpose of the sampling was to determine if releases of petroleum hydrocarbons had occurred, and if so, to estimate the volume of soil that might require special handling during construction activities. The sampling was accomplished using the direct push sampling method accompanied by field screening for organic vapors with a PID.

One soil sample was collected from each of the 11 soil borings. No measurable PID responses, petroleum odors, or petroleum staining were observed in any of the soil borings. Laboratory analyses did not indicate detectable concentrations of GRO or DRO in any of the samples.

No samples were submitted for VOC or SVOC analyses because there were no field indicators of petroleum contaminants.

Results of chemical analyses of soil samples are summarized in Table 1, and also shown on Figure 2. Copies of the original laboratory report and chain-of-custody documentation are included as Appendix 3.

4.2 Extent of Impacted Soils

This investigation and analytical program were implemented to determine the presence or absence of petroleum hydrocarbons and, if possible, to estimate the volume of impacted soil present within the Right-of-Way/Easement study area.

There were no analytical detections of GRO or DRO in any of the samples. Based on these results AMEC estimates that potentially none of the soil should require special handling during construction.

5.0 CONCLUSIONS

The following conclusions are based upon AMEC's evaluation of field observations and laboratory analyses of samples collected from the site on June 1, 2006.

- The commercial building at the HH Downs LLC Property, Parcel #19 is occupied by a commercial mechanical contractor.
- No field indicators of petroleum contaminants were observed in samples collected for this investigation.
- Laboratory analyses of soil samples indicated no detectable levels of GRO or DRO in any of the 11 samples.

6.0 RECOMMENDATIONS

If NCDOT suspects or encounters contaminated soil in the area not foreseen by these sample analyses, AMEC recommends the following action:

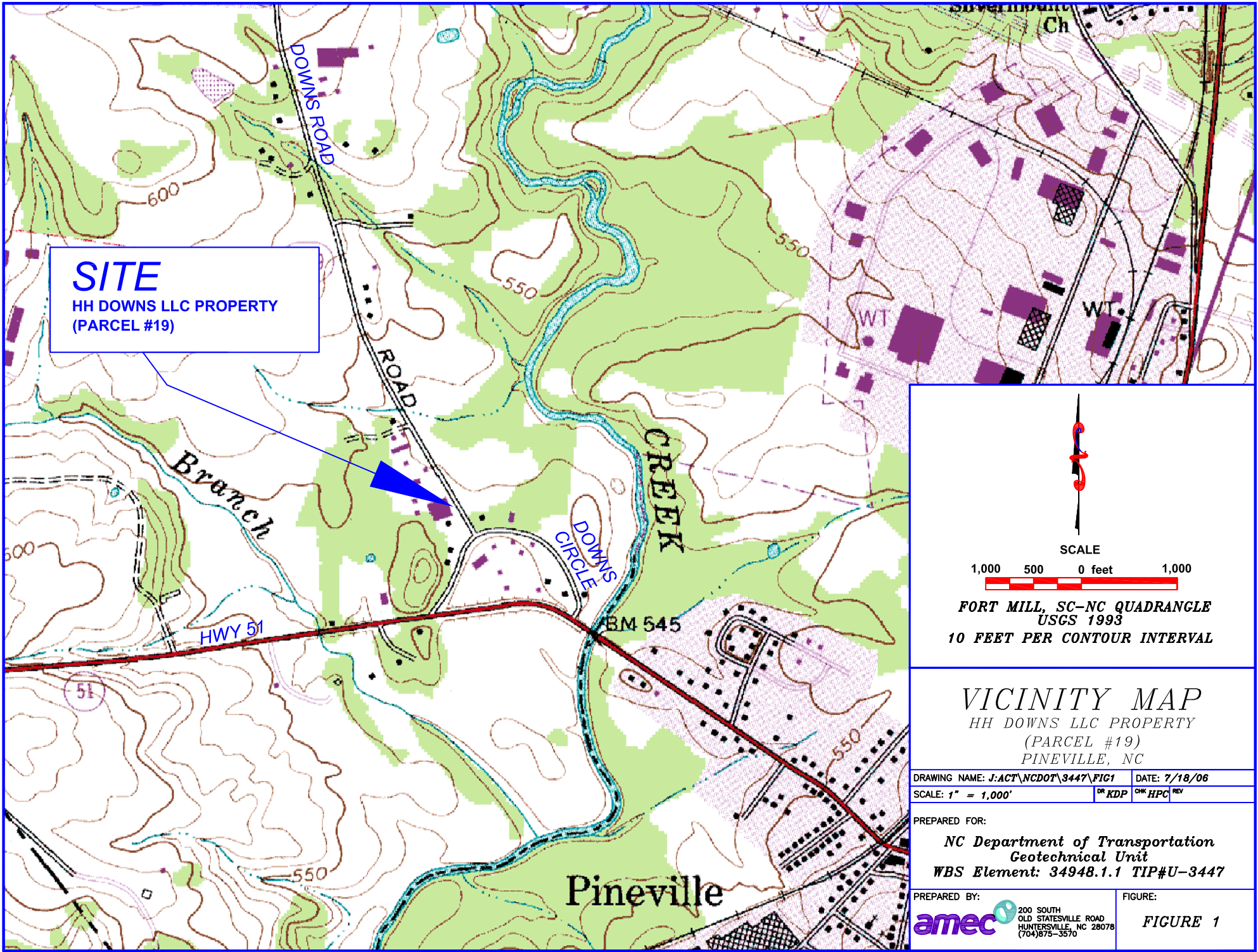
- Segregation during soil excavation then proper disposal of potentially petroleum-impacted soil from the proposed drainage improvement during construction operations.

TABLES

Table 1
Gasoline and Diesel Range Organic Analytical Results in Soil Samples
NCDOT Parcel #19
HH Downs LLC Property
Pineville, North Carolina

Sample ID	Sample Date	Sample Depth (feet bgs)	Field Screening (ppm)	Soils	
				GRO (mg/kg)	DRO (mg/kg)
NC Action Levels				10	40
P19-1	06/01/2006	3-5	0	BQL (5.7)	BQL (7.2)
P19-2	06/01/2006	2-4	0	BQL (5.3)	BQL (6.6)
P19-3	06/01/2006	3-5	0	BQL (6.1)	BQL (7.2)
P19-4	06/01/2006	3-5	0	BQL (5.8)	BQL (7.1)
P19-5	06/01/2006	3-5	0	BQL (5.7)	BQL (7.1)
P19-6	06/01/2006	3-5	0	BQL (5.7)	BQL (6.9)
P19-7	06/01/2006	3-5	0	BQL (5.3)	BQL (6.7)
P19-8	06/01/2006	3-5	0	BQL (5.6)	BQL (7.0)
P19-9	06/01/2006	3-5	0	BQL (5.7)	BQL (6.5)
P19-10	06/01/2006	3-5	0	BQL (5.4)	BQL (6.8)
P19-11	06/01/2006	3-5	0	BQL (4.8)	BQL (6.4)
NOTES: bgs = below ground surface GRO = Gasoline Range Organics by Method 5035 DRO = Diesel Range Organics by Method 3550 BQL = analyte not detected above quantitation limit shown in () Standards derived from the North Carolina Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater					

FIGURES



SITE
 HH DOWNS LLC PROPERTY
 (PARCEL #19)

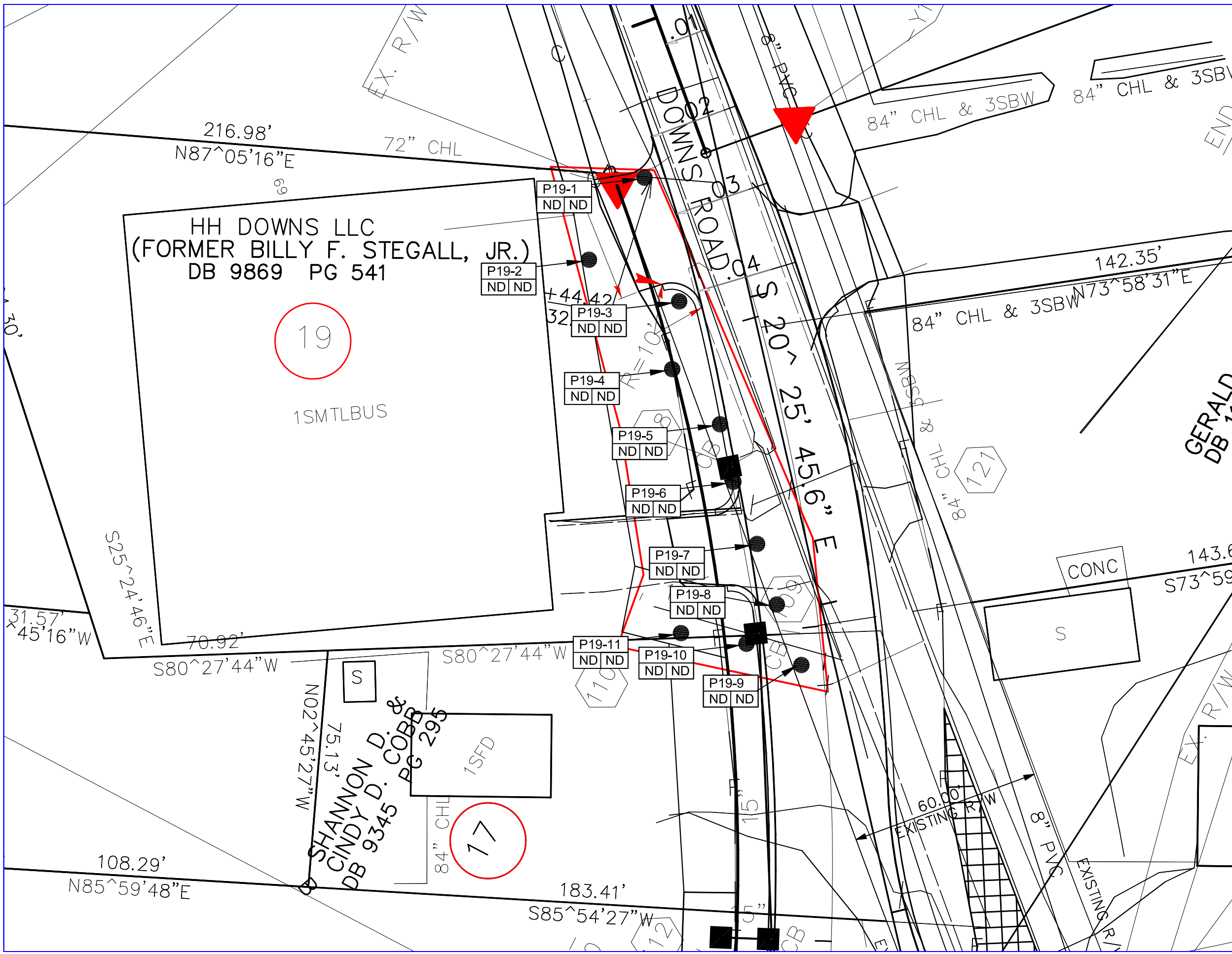
SCALE
 1,000 500 0 feet 1,000
 FORT MILL, SC-NC QUADRANGLE
 USGS 1993
 10 FEET PER CONTOUR INTERVAL

VICINITY MAP
 HH DOWNS LLC PROPERTY
 (PARCEL #19)
 PINEVILLE, NC

DRAWING NAME: J:\ACT\NCDOT\3447\FIG1	DATE: 7/18/06
SCALE: 1" = 1,000'	DR KDP CHK HPC REV

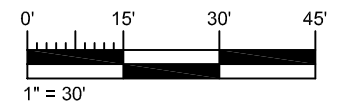
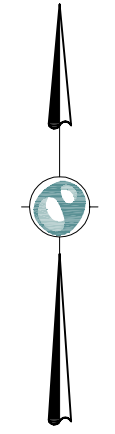
PREPARED FOR:
**NC Department of Transportation
 Geotechnical Unit
 WBS Element: 34948.1.1 TIP#U-3447**

PREPARED BY: 200 SOUTH OLD STATESVILLE ROAD HUNTSVILLE, NC 28078 (704)875-3570	FIGURE: FIGURE 1
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LEGEND

- AREA OF INVESTIGATION
- SOIL BORING LOCATION
- SOIL BORING IDENTIFICATION
- GASOLINE RANGE ORGANICS (GRO) IN MILLIGRAMS PER KILOGRAM
- DIESEL RANGE ORGANICS (DRO) IN MILLIGRAMS PER KILOGRAM



SITE MAP WITH ANALYTICAL DETECTIONS
IN SOIL SAMPLES
HH DOWNS LLC PROPERTY
PARCEL #19

DRAWING NAME: J:\ACT.NCDOT..05..3447 DATE: 7/25/08
SCALE: 1"=30" OR TLH OR HPC REV

PREPARED FOR:
NC Department of Transportation
Geotechnical Unit
WBS Element: 34948.1.1

PREPARED BY: **amec** 9800 WEST KINCEY AVE SUITE 100 HUNTERSVILLE, NC 28078 (704)875-3570

FIGURE:
FIGURE 2

APPENDIX 1
SITE PHOTOGRAPHS

Photo Log

PAGE 1 of 1



Photo No. 1	Date: 5/11/06	
Direction Photo Taken: South		
Description: Study area (across Downs Road)		

Photo No. 2	Date: 5/11/06	
Direction Photo Taken: West		
Description: Study area and north side of building (across Downs Road)		

APPENDIX 2
BORING LOGS

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-1

Project Number: 6-9300-3447

Project Location: Pineville, NC



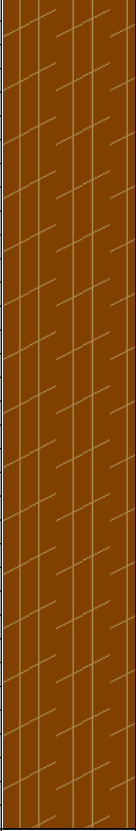
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Asphalt				
		FILL Gravel with fines, base coarse	GM			
2.0		SAPROLITE Clayey Silt Orangish-brown and light brown, increasingly sandy with depth	ML	0		
4.0				0		
		Wet below 5'		0		Wet below 5'
6.0				0		
				0		
8.0		TERMINATION AT 8' Near Refusal				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-2

Project Number: 6-9300-3447

Project Location: Pineville, NC



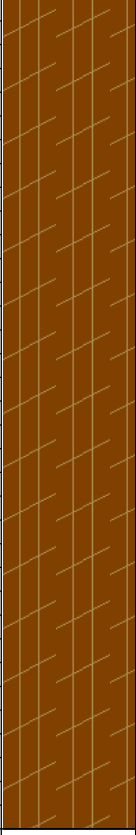
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Asphalt				
		FILL Gravel with fines, base coarse	GM	0		
2.0		SAPROLITE Clayey Silt Orangish-brown and light brown, increasingly sandy with increased depth	ML	0		
4.0		Wet below 4'		0		Wet below 4'
6.0				0		
8.0		TERMINATION AT 8' Near Refusal		0		

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-3

Project Number: 6-9300-3447

Project Location: Pineville, NC



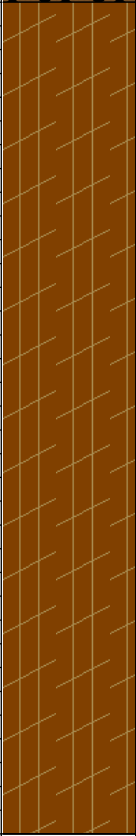
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Asphalt				
		FILL Gravel with fines, base coarse	GM	0		
2.0		SAPROLITE Clayey Silt Orangish-brown and light brown, increasingly sandy with increased depth	ML	0		
4.0				0		
		Wet below 5'		0		Wet below 5'
6.0				0		
				0		
8.0		TERMINATION AT 8' Near Refusal				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-4

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
0.0		Asphalt				
0.0		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
2.0				0		
4.0				0		
4.0		Wet below 5'		0		
5.0				0		Wet below 5'
5.0		Sandy Silt Grey and orangish-brown; very granular texture	ML	0		
6.0				0		
8.0		TERMINATION AT 8'		0		

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-5

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
0.0		Asphalt				
0.0		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
2.0				0		
4.0				0		
4.0		Wet below 5'		0		
5.0				0		Wet below 5'
5.0		Sandy Silt Grey and orangish-brown; very granular texture	ML	0		
6.0				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-6

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Concrete				
		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
2.0				0		
				0		
4.0				0		
		Wet below 5'		0		
		Sandy Silt Grey and orangish-brown; very granular texture	ML	0		Wet below 5'
6.0				0		
				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-7

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Concrete				
		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
2.0				0		
				0		
4.0				0		
		Wet below 5'		0		
		Sandy Silt Grey with orangish-brown; very granular texture	ML	0		Wet below 5'
6.0				0		
				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-8

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		TOPSOIL Brown	ML			
		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
2.0				0		
				0		
4.0				0		
		Wet below 5'				
		Sandy Silt Grey and orangish-brown; granular texture	ML	0		Wet below 5'
6.0				0		
				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-9

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		TOPSOIL Brown	ML			
		SAPROLITE Clayey Silt Orangish-brown and light brown		0		
2.0			ML	0		
				0		
4.0				0		
		Wet below 5'		0		
		Sandy Silt Grey and orangish-brown; granular texture		0		Wet below 5'
6.0			ML	0		
				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-10

Project Number: 6-9300-3447

Project Location: Pineville, NC

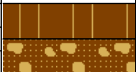
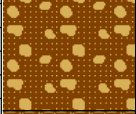

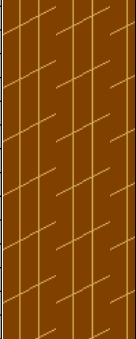
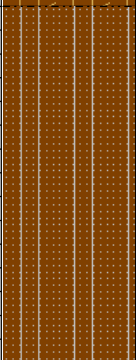
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		TOPSOIL Silt	ML	0		
		FILL Gravel with fines	GM	0		
		TOPSOIL Former ground surface With humus	OL			
2.0		SAPROLITE Clayey Silt Brown and light brown	ML	0		
4.0		Wet at 5'		0		
		Sandy Silt Grey and orangish-brown	ML	0		Wet at 5'
6.0				0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 19-11

Project Number: 6-9300-3447

Project Location: Pineville, NC

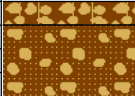

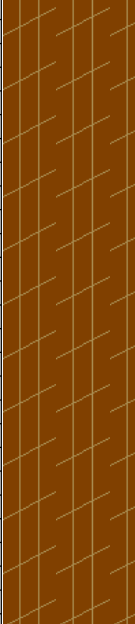
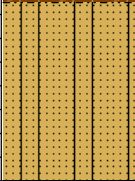
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

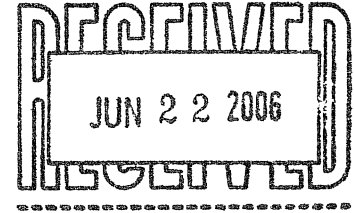
Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL Silt Brown; gravelly	GM	0		
		Gravel with fines				
2.0		SAPROLITE Clayey Silt Orangish-brown and light brown	ML	0		
4.0				0		
6.0				0		
		Sandy Silt Grey and light brown	ML	0		
8.0		TERMINATION AT 8'				

Hole Size: 2"

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Huntersville, North Carolina 28078

**APPENDIX 3
LABORATORY ANALYTICAL REPORTS
&
CHAIN-OF-CUSTODY**

June 14, 2006



Ms. Helen Corley
AMEC
9800 West Kincey Ave
Suite 190
Huntersville, NC 28078

RE: Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

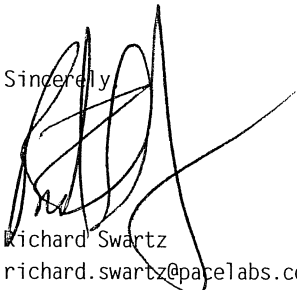
Dear Ms. Corley:

Enclosed are the analytical results for sample(s) received by the laboratory on June 1, 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,



Richard Swartz
richard.swartz@pacelabs.com
Project Manager

Enclosures

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

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Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

Solid results are reported on a dry weight basis

Lab Sample No: 927046094 Project Sample Number: 92120467-001 Date Collected: 06/01/06 08:10
Client Sample ID: P19-1 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	30.6	%		06/01/06 16:51	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.2	06/13/06 17:42	KBS	68334-30-5		
n-Pentacosane (S)	35	%		06/13/06 17:42	KBS	629-99-2	1	
Date Extracted	06/12/06			06/12/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	06/12/06 13:28	DHW			
4-Bromofluorobenzene (S)	83	%		06/12/06 13:28	DHW	460-00-4		

Date: 06/14/06

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Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046102 Project Sample Number: 92120467-002 Date Collected: 06/01/06 08:25
Client Sample ID: P19-2 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	24.4	%		06/01/06 16:51	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.6	06/13/06 18:03	KBS	68334-30-5		
n-Pentacosane (S)	55	%		06/13/06 18:03	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.3	06/12/06 13:57	DHW			
4-Bromofluorobenzene (S)	81	%		06/12/06 13:57	DHW	460-00-4		

Date: 06/14/06

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

Lab Project Number: 92120467
 Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046110 Project Sample Number: 92120467-003 Date Collected: 06/01/06 08:40
 Client Sample ID: P19-3 Matrix: Soil Date Received: 06/01/06 14:20

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

Percent Moisture	Method: % Moisture							
Percent Moisture	30.3	%		06/02/06 17:20	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.2	06/13/06 17:42	KBS	68334-30-5		
n-Pentacosane (S)	79	%		06/13/06 17:42	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.1	06/13/06 08:15	DHW			
4-Bromofluorobenzene (S)	83	%		06/13/06 08:15	DHW	460-00-4		

Date: 06/14/06

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Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046128 Project Sample Number: 92120467-004 Date Collected: 06/01/06 09:00
Client Sample ID: P19-4 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	29.2	%		06/02/06 17:20	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.1	06/13/06 18:03	KBS	68334-30-5		
n-Pentacosane (S)	71	%		06/13/06 18:03	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.8	06/13/06 09:13	DHW			
4-Bromofluorobenzene (S)	81	%		06/13/06 09:13	DHW	460-00-4		

Date: 06/14/06

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 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: 92120467
 Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046136 Project Sample Number: 92120467-005 Date Collected: 06/01/06 09:30
 Client Sample ID: P19-5 Matrix: Soil Date Received: 06/01/06 14:20

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

Percent Moisture	Method: % Moisture							
Percent Moisture	29.1	%		06/02/06 17:20	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.1	06/09/06 23:06	KBS	68334-30-5		
n-Pentacosane (S)	67	%		06/09/06 23:06	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	06/13/06 10:11	DHW			
4-Bromofluorobenzene (S)	74	%		06/13/06 10:11	DHW	460-00-4		

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Lab Project Number: 92120467

Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046144

Client Sample ID: P19-6

Project Sample Number: 92120467-006

Matrix: Soil

Date Collected: 06/01/06 09:55

Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	27.4	%		06/02/06 17:20	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.9	06/09/06 20:32	KBS	68334-30-5		
n-Pentacosane (S)	67	%		06/09/06 20:32	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	06/13/06 10:40	DHW			
4-Bromofluorobenzene (S)	79	%		06/13/06 10:40	DHW	460-00-4		

Date: 06/14/06

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

Lab Project Number: 92120467
 Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046151 Project Sample Number: 92120467-007 Date Collected: 06/01/06 10:30
 Client Sample ID: P19-7 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	25.6	%		06/02/06 17:21	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.7	06/09/06 23:06	KBS	68334-30-5		
n-Pentacosane (S)	112	%		06/09/06 23:06	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.3	06/13/06 16:25	DHW			
4-Bromofluorobenzene (S)	73	%		06/13/06 16:25	DHW	460-00-4		

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Lab Project Number: 92120467

Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046169
Client Sample ID: P19-8

Project Sample Number: 92120467-008
Matrix: Soil

Date Collected: 06/01/06 10:55
Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	28.2	%		06/02/06 17:21	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.0	06/09/06 21:11	KBS	68334-30-5		
n-Pentacosane (S)	114	%		06/09/06 21:11	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.6	06/13/06 11:38	DHW			
4-Bromofluorobenzene (S)	75	%		06/13/06 11:38	DHW	460-00-4		

Date: 06/14/06

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NC Wastewater 40
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Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046177 Project Sample Number: 92120467-009 Date Collected: 06/01/06 11:10
Client Sample ID: P19-9 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	23.4	%		06/02/06 17:21	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.5	06/13/06 12:39	KBS	68334-30-5		
n-Pentacosane (S)	63	%		06/13/06 12:39	KBS	629-99-2		
Date Extracted	06/10/06			06/10/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	06/13/06 12:07	DHW			
4-Bromofluorobenzene (S)	75	%		06/13/06 12:07	DHW	460-00-4		

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Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046185 Project Sample Number: 92120467-010 Date Collected: 06/01/06 11:40
Client Sample ID: P19-10 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	26.4	%		06/02/06 17:22	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.8	06/12/06 18:25	KBS	68334-30-5		
n-Pentacosane (S)	59	%		06/12/06 18:25	KBS	629-99-2		
Date Extracted	06/10/06			06/10/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.4	06/13/06 12:35	DHW			
4-Bromofluorobenzene (S)	78	%		06/13/06 12:35	DHW	460-00-4		

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 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92120467
 Client Project ID: NCDOT Pineville 34948.1.1

Lab Sample No: 927046193 Project Sample Number: 92120467-011 Date Collected: 06/01/06 12:20
 Client Sample ID: P19-11 Matrix: Soil Date Received: 06/01/06 14:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	21.8	%		06/05/06 11:03	KDF			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	06/12/06 19:08	KBS	68334-30-5		
n-Pentacosane (S)	54	%		06/12/06 19:08	KBS	629-99-2		
Date Extracted	06/10/06			06/10/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.8	06/13/06 13:04	DHW			
4-Bromofluorobenzene (S)	77	%		06/13/06 13:04	DHW	460-00-4		

Date: 06/14/06

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 FL NELAP E87627

Lab Project Number: 92120467

Client Project ID: NCDOT Pineville 34948.1.1

PARAMETER FOOTNOTES

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
[1] Low surrogate recovery was confirmed as a matrix effect by a second analysis.

Date: 06/14/06

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QUALITY CONTROL DATA

Lab Project Number: 92120467
Client Project ID: NCDOT Pineville 34948.1.1

QC Batch: 159485 Analysis Method: EPA 8015
QC Batch Method: EPA 8015 Analysis Description: GAS. Soil, North Carolina
Associated Lab Samples: 927046110 927046128 927046136 927046144 927046151
927046169 927046177 927046185 927046193

METHOD BLANK: 927078576
Associated Lab Samples: 927046110 927046128 927046136 927046144 927046151 927046169 927046177
927046185 927046193

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	82		

LABORATORY CONTROL SAMPLE: 927078584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Gasoline	mg/kg	25.00	21.14	84	
4-Bromofluorobenzene (S)				78	

MATRIX SPIKE: 927078592

Parameter	Units	927046110 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Gasoline	mg/kg	0.2955	30.25	27.46	90	
4-Bromofluorobenzene (S)					84	

SAMPLE DUPLICATE: 927078600

Parameter	Units	927046128 Result	DUP Result	RPD	Footnotes
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	81	78		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 92120467

Client Project ID: NCDOT Pineville 34948.1.1

QC Batch: 158718	Analysis Method: % Moisture
QC Batch Method:	Analysis Description: Percent Moisture
Associated Lab Samples: 927046094	927046102

SAMPLE DUPLICATE: 927046516

Parameter	Units	927044248	DUP	RPD	Footnotes
		Result	Result		
Percent Moisture	%	11.70	11.60	1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 92120467

Client Project ID: NCDOT Pineville 34948.1.1

QC Batch: 158886

Analysis Method: % Moisture

QC Batch Method:

Analysis Description: Percent Moisture

Associated Lab Samples:

927046193

SAMPLE DUPLICATE: 927054403

Parameter	Units	927046193	DUP	RPD	Footnotes
		Result	Result		
Percent Moisture	%	21.80	22.80	4	

Asheville Certification IDs

NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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 spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- [2] The surrogate recovery was outside QC acceptance limits due to matrix interference.

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC	99030
FL NELAP	E87648

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627



Section A
Required Client Information:

Company: TIME
Address: 9800 West Kroy, Ave # 190
Huntersville, NC 28078
Email To: helen.coley@amnc.com
Phone: 704 875 3570 Fax: 704 875 8718
Requested Due Date/TAT: <TD

Section B
Required Project Information:

Report To: Helen Coley
Copy To:
Purchase Order No.:
Project Name: NC DOT Pineville
Project Number:

Section C
Invoice Information:

Attention: B. J. McLeod
Company Name: NC DOT - Piedmont
Address: Raleigh, NC
Pace Quote Reference: WBS Element 34948.1.1
Pace Project Manager: R. Charlt Swantz
Pace Profile #: 3578-5

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

ITEM #	SAMPLE ID										
	1	2	3	4	5	6	7	8	9	10	11
1	P	1	9	-	1						
2	P	1	9	-	2						
3	P	1	9	-	3						
4	P	1	9	-	4						
5	P	1	9	-	5						
6	P	1	9	-	6						
7	P	1	9	-	7						
8	P	1	9	-	8						
9	P	1	9	-	9						
10	P	1	9	-	10						
11	P	1	9	-	11						
12											

MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											
		COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
		DATE	TIME	DATE	TIME														
SL	G			6/1/06	0810														
					0825														
					0840														
					0900														
					0930														
					0955														
					1030														
					1055														
					1110														
					1140														
					1230														

Filtered (Y/N)

Requested Analysis:

TPH - GAO
TPH - DRA

Residual Chlorine (Y/N)

2120467
Pace Project Number

Lab I.D.

Additional Comments:

Please call with any questions

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION		
Kelley Phillips/AMNC	6/1/06	1430	[Signature]	6/1/06	1170	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kelley Phillips

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 6/1/06

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact