

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***

**BEBCO LLC Property, Parcel #3  
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  
9800 West Kincey Avenue, Suite 190  
Huntersville, North Carolina 28078  
(704) 875-3570**

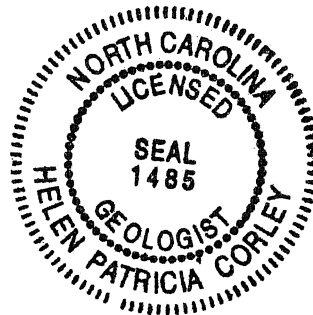
# ***Preliminary Site Assessment***

**BEBCO LLC Property, Parcel #3  
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*

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

## **TABLE OF CONTENTS**

|                                   |    |
|-----------------------------------|----|
| <b>TABLE OF CONTENTS</b> .....    | i  |
| <b>LIST OF TABLES</b> .....       | ii |
| <b>LIST OF FIGURES</b> .....      | ii |
| <b>LIST OF APPENDICES</b> .....   | ii |
| <br>                              |    |
| <b>1.0 INTRODUCTION</b> .....     | 1  |
| 1.1 SITE LOCATION .....           | 1  |
| 1.2 SITE DESCRIPTION .....        | 2  |
| <br>                              |    |
| <b>2.0 GEOLOGY</b> .....          | 3  |
| 2.1 REGIONAL GEOLOGY .....        | 3  |
| 2.2 SITE GEOLOGY.....             | 3  |
| <br>                              |    |
| <b>3.0 FIELD ACTIVITIES</b> ..... | 4  |
| 3.1 PRELIMINARY ACTIVITIES .....  | 4  |
| 3.2 SITE RECONNAISSANCE .....     | 4  |
| 3.3 WELL SURVEY .....             | 4  |
| 3.4 DIRECT PUSH SAMPLING .....    | 4  |
| <br>                              |    |
| <b>4.0 RESULTS</b> .....          | 7  |
| 4.1 SOIL SAMPLING RESULTS .....   | 7  |
| 4.2 EXTENT OF IMPACTED SOIL ..... | 7  |
| <br>                              |    |
| <b>5.0 CONCLUSIONS</b> .....      | 9  |



**6.0 RECOMMENDATIONS** ..... 10

**LIST OF TABLES**

**TABLE 1** - SOIL ANALYTICAL RESULTS (GRO and DRO).....

**LIST OF FIGURES**

**FIGURE 1** - VICINITY MAP

**FIGURE 2** - SITE MAP WITH ANALYTICAL DETECTIONS FOR SOIL SAMPLES

**APPENDICES**

**APPENDIX 1** - SITE PHOTOGRAPHS

**APPENDIX 2** - BORING LOGS

**APPENDIX 3** - GEOPHYSICAL SURVEY

**APPENDIX 4** - COMPLETE ANALYTICAL RESULTS/CHAIN OF CUSTODY

## **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 BEBCO LLC Property (Parcel # 3) to be acquired for drainage improvements along Hwy 51. The property is located at 12640 Pineville - Rock Hill Road (Hwy 51), Pineville, Mecklenburg County, North Carolina. 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 BEBCO LLC Property due to suspected previous use of the property. The property was suspected as having been previously operated as a gas station and underground storage tanks (USTs) were a potential concern at the site. The PSA was performed to locate any USTs within the proposed right-of-way (ROW) and to determine if soils have been impacted by petroleum compounds as a result of past or present uses of the property. The investigation was specifically completed to determine the presence or absence of petroleum hydrocarbons and estimate the volume of impacted soil within the proposed ROW.

Schnabel Engineering of Greensboro, NC (Schnabel) performed a geophysical investigation of the property under a separate contract with the NCDOT. Geophysical surveying using GPR and EM was utilized to investigate for any potential UST system components remaining at the site.

The following report describes our field investigations and results of chemical analyses. It includes the results of the geophysical investigation, 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 BEBCO LLC Property is located on the north side of Hwy 51 in Pineville, Mecklenburg County, North Carolina approximately 800 feet west of the intersection of Hwy 51 and Downs Circle. It is located within the Piedmont physiographic province of south-central North Carolina.

Figure 1 shows the site location and vicinity.

## **1.2 Site Description**

The site is approximately a 0.5 acre parcel located on the north side of Hwy 51. A one story wooden house occupies the site. An above ground storage tank (AST) approximately 275 gallons in capacity used for home heating oil is currently located near the northwest corner of the house outside of the ROW (Figure 2). At the time of this investigation the house was being vacated by the occupant. It is unknown what the future plans are regarding the use of the house. A small canopy/carport is located on the south end of the house. A circular gravel driveway encircles the house and connects the east and west sides of the property to Hwy 51. Much of the property is covered in grass/tall weeds and trees. Figure 2 shows the general layout of the site. The area of easement investigation was roughly 115 by 20 ft.

A vacant field occupies the adjacent property to the east. Wooded land is located north and west of the property, with Hwy 51 adjacent to the south. Photographs are included as Appendix 1.

## **2.0 GEOLOGY**

### **2.1 Regional Geology**

The BEBCO LLC 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 observation of bedrock outcroppings and sampling of 9 hand auger and direct push probe borings. Borings extended to total depths ranging from 2 to 7 feet bgs. Soils generally consisted of a surficial fill of gravel with fines underlain by saprolite beginning at an approximate depth of 0.5 feet bgs. The one exception to this was seen at boring location P3-6 where fill was present from the surface to approximately 3.5 feet bgs. The saprolite consisted of a dry clayey sandy silt, orangish brown and light brown and gray in color. Boulder outcroppings of gabbro were observed at ground surface. Boring logs are presented in Appendix 2.

Ground water was not encountered in any of the borings. Local topography suggests that ground-water flow is toward the south and east 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 direct push sampling. 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. Schnabel was contacted to perform the geophysical investigation.

The geophysical investigation performed by Schnabel did not indicate the presence of UST or system components within the proposed ROW or outside the ROW in the areas identified by the Schnabel study. Schnabel was required to conduct the geophysical survey in two separate mobilizations due to the presence of a construction dumpster in the Right-of-Way/Easement study area which partially blocked access. The geophysical survey report is presented as Appendix 3.

### **3.2 Site Reconnaissance**

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

### **3.3 Well Survey**

Ground water was not encountered in any of the borings completed for this investigation. No well survey was performed as part of this PSA but one water supply well was observed by AMEC on the site. A water meter from the municipal water supply was also observed on the property.

### **3.4 Direct Push Sampling**

Following the initial geophysical survey, six soil borings were conducted parallel to the road at roughly 20ft spacing to target the future drain line location as closely as possible. The

borings were completed to depths ranging from 2 ft to 7ft below ground surface (bgs). The total depth of each boring represents the refusal depth and is the assumed depth to competent bedrock. Due to the presence of utilities minor sampling location adjustments were required. The sample locations are shown on Figure 2.

Borings were also placed outside of the easement adjacent to the canopy/carport area which was initially considered a potential UST bed. Due to the restricted height of the canopy/carport roof, the geoprobe unit could not access the area directly beneath the canopy/carport. The presence of a concrete slab beneath the canopy also precluded the use of a hand auger beneath the canopy/carport. The geoprobe could not access the areas immediately adjacent to the canopy/carport due to various reasons: dense vegetation to the west; insufficient clearance to orient the geoprobe perpendicular to Hwy 51 to the south; and, a construction dumpster to the east. A hand auger was therefore used to install three soil borings immediately adjacent to the canopy/carport concrete slab.

Three exploratory hand auger borings were also placed outside of the easement 30ft east of the canopy/carport in an area reported by the former occupant to have been the location of vent pipes. The area was topographically higher in elevation suggesting the potential for the presence of fill. The borings indicated that bedrock was present immediately beneath a thin layer of surficial soil.

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 was encountered and 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 BEBCO LLC Property (Parcel # 3) on May 31, 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 direct push and hand auger methods accompanied by field screening for organic vapors with a PID.

Nine soil samples were collected from the 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 in any of the samples. Analyses of soil samples for DRO indicated a detectable concentration in the three western most samples. Analysis of samples P3-1, P3-2 and P3-3 indicated DRO concentrations of 35, 16 and 8 mg/kg respectively. P3-1 was collected at 3-5 ft bgs and samples P3-2 and P3-3 were collected at 1-3 ft bgs. The reported concentrations in P3-1 and P3-2 exceed the 10 mg/kg NCDENR Initial Action Level for petroleum fuel compounds. No samples were collected from these locations 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, with detections also posted on Figure 2. Copies of the original laboratory report and chain-of-custody documentation are included as Appendix 4.

### **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. For the purposes of this PSA it was assumed that soil excavation activities will extend to the top of competent rock. The average depth to rock, as defined by probe refusal, is approximately 4 ft in the area of DRO impacted soil.

DRO was discovered in borings P3-1 and P3-2 at concentrations exceeding the NCDENR Reporting level of 10 mg/kg but not the 40mg/kg Action Level. If impacted soil is excavated



with any detection of GRO/DRO; this constitutes the need for special handling and disposal under the NCDENR Groundwater Section Program. Based upon the location of the soil borings, the extent of the proposed study area, and the projected depth to bedrock, AMEC estimates that 186 cubic yards of soil may require special handling if disturbed during construction. The area of potentially petroleum-impacted soil is shown on Figure 2.

## 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 May 31, 2006.

- The commercial building at the BEBCO LLC Property, Parcel #3 is currently vacant. It has recently been used as a residence, but may have been operated in the past as a gas station.
- According to Schnabel, a NCDOT geophysical subcontractor, no UST-like subsurface anomalies are present in the study area, the canopy/carport or the topographically elevated area 30 ft to the east.
- 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 in any of the nine samples.
- Laboratory analyses of soil samples indicated DRO at a concentrations ranging from 8 to 35 mg/kg in 3 of the 9 boring locations.
- Ground water was not encountered in borings that extended to a maximum depth of 7 ft bgs.
- Approximately 186 cubic yards of petroleum-contaminated soil is potentially present within the study area.

## **6.0 RECOMMENDATIONS**

If NCDOT excavates soil in the contaminated area, AMEC recommends the following action:

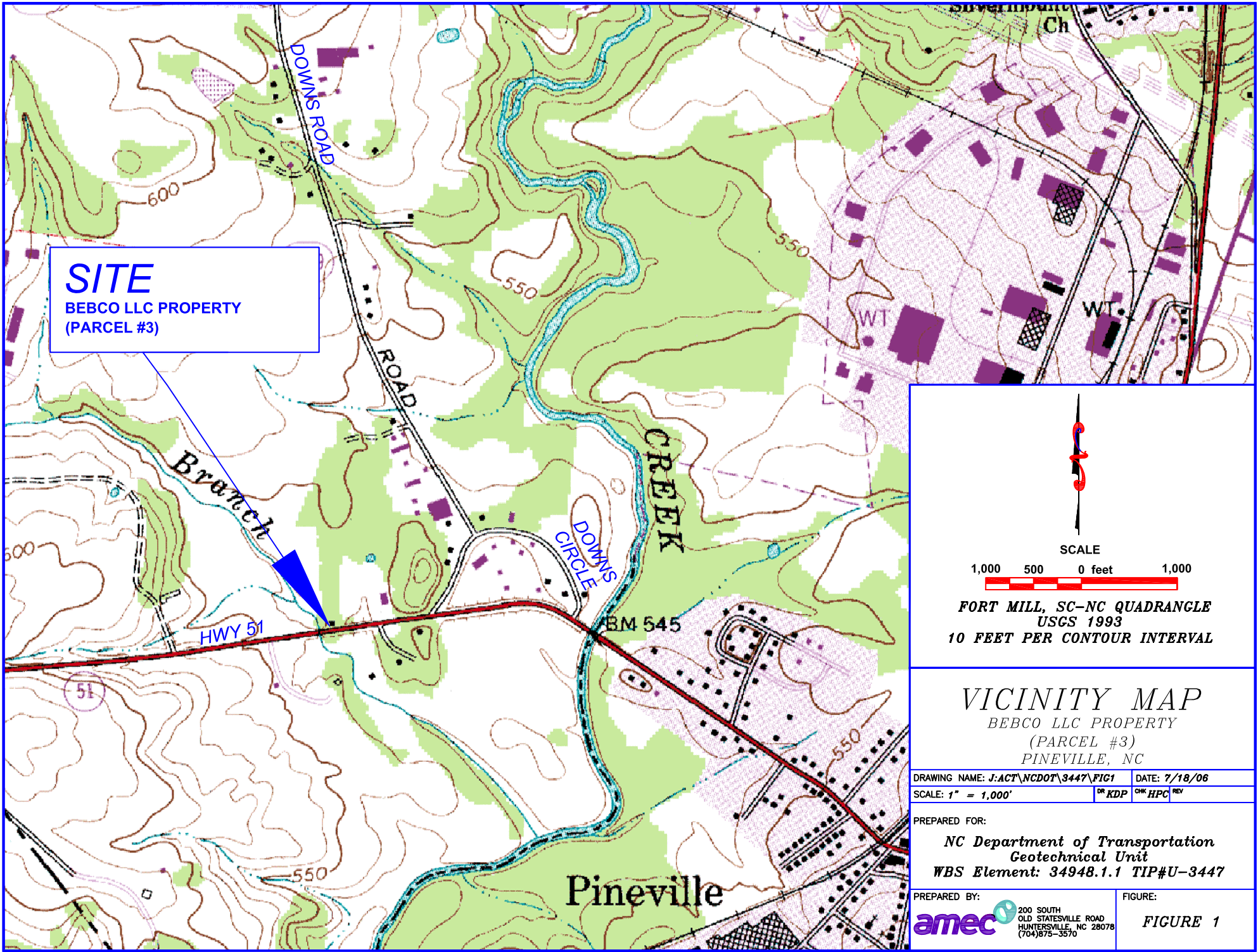
- Segregation of soil during excavation for construction operations then proper disposal of potentially petroleum-impacted soil from the proposed ROW.

## **TABLES**



**Table 1**  
**Gasoline and Diesel Range Organic Analytical Results in Soil Samples**  
**NCDOT Parcel #3**  
**BEBCO LLC Property**  
**Pineville, North Carolina**

| Sample ID   | Sample Date | Sample Depth<br>(feet bgs) | Field<br>Screening<br>(ppm) | Soils Method 8015 |                |
|---|-------------|----------------------------|-----------------------------|-------------------|----------------|
|   |             |                            |                             | GRO<br>(mg/kg)    | DRO<br>(mg/kg) |
| NC Action Levels  |             |                            |                             | 10                | 40             |
| P3-1  | 05/31/2006  | 3-5                        | 0                           | BQL (4.6)         | 35.            |
| P3-2  | 05/31/2006  | 1-3                        | 0                           | BQL (4.3)         | 16.            |
| P3-3  | 05/31/2006  | 1-3                        | 0                           | BQL (4.5)         | 8.0            |
| P3-4  | 05/31/2006  | 4-6                        | 0                           | BQL (4.3)         | BQL (5.5)      |
| P3-5  | 05/31/2006  | 1-2                        | 0                           | BQL (4.1)         | BQL (5.4)      |
| P3-6  | 05/31/2006  | 3-5                        | 0                           | BQL (5.1)         | BQL (6.3)      |
| P3-7  | 05/31/2006  | 3-4                        | 0                           | BQL (4.4)         | BQL (5.6)      |
| P3-8  | 05/31/2006  | 3-4                        | 0                           | BQL (6.2)         | BQL (6.6)      |
| P3-9  | 05/31/2006  | 3-4                        | 0                           | BQL (4.2)         | BQL (5.5)      |
| <b>NOTES:</b><br>bgs = below ground surface<br>GRO = Gasoline Range Organics by Method 5035<br>DRO = Diesel Range Organics by Method 3550<br>BQL = analyte not detected above quantitation limit shown in ( )<br>Standards derived from the North Carolina Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater |             |                            |                             |                   |                |

## FIGURES



**SITE**  
 BEBCO LLC PROPERTY  
 (PARCEL #3)

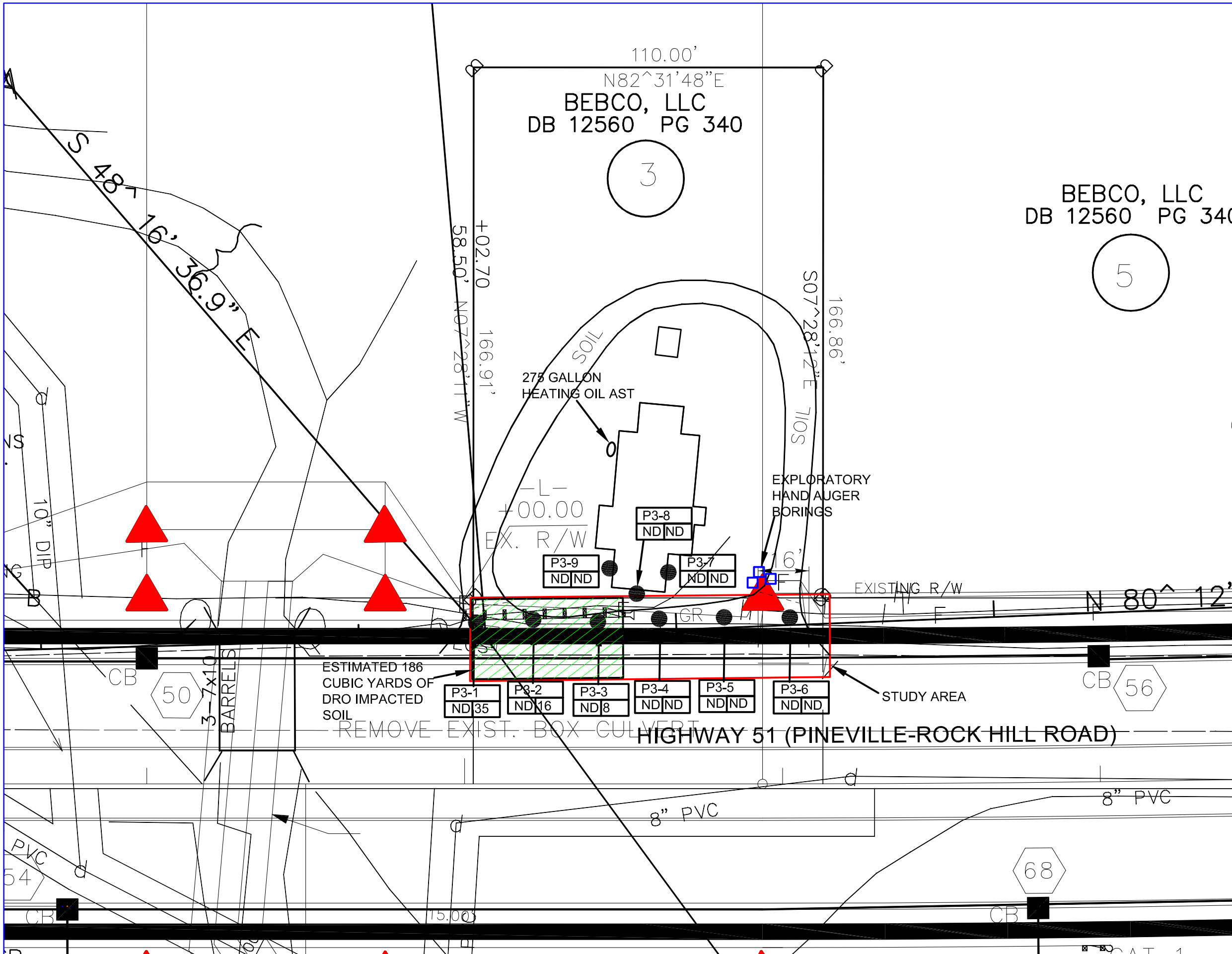
  
 SCALE  
 1,000 500 0 feet 1,000  
  
 FORT MILL, SC-NC QUADRANGLE  
 USGS 1993  
 10 FEET PER CONTOUR INTERVAL

**VICINITY MAP**  
 BEBCO LLC PROPERTY  
 (PARCEL #3)  
 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:<br> 200 SOUTH OLD STATESVILLE ROAD<br>HUNTSVILLE, NC 28078<br>(704)875-3570 | FIGURE:<br><b>FIGURE 1</b> |
|---|----------------------------|



### LEGEND

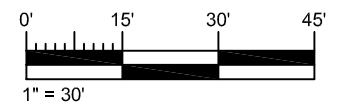
AREA OF INVESTIGATION

SOIL BORING LOCATION  
SOIL BORING IDENTIFICATION  
P3-8 NDND

GASOLINE RANGE ORGANICS (GRO) IN MILLIGRAMS PER KILOGRAM  
DIESEL RANGE ORGANICS (DRO) IN MILLIGRAMS PER KILOGRAM

ESTIMATED AREA OF IMPACTED SOIL

EXPLORATORY HAND AUGER BORINGS



SITE MAP WITH ANALYTICAL DETECTIONS  
IN SOIL SAMPLES  
BEBCO, LLC PROPERTY  
PARCEL #3

DRAWING NAME: J:\ACT.NCDOT.05.3447 DATE: 7/19/06  
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 190  
HUNTERSVILLE, NC 28078  
(704)875-3570

FIGURE:  
FIGURE 2



---

**APPENDIX 1**

**SITE PHOTOGRAPHS**

---

# Photo Log

PAGE 1 of 2



|  |                         |   |
|--|-------------------------|---|
| <b>Photo No.</b><br>1                      | <b>Date:</b><br>5/11/06 |  |
| <b>Direction Photo Taken:</b> West         |                         |   |
| <b>Description:</b><br>Canopy/carport area |                         |   |

|  |                         |  |
|--|-------------------------|--|
| <b>Photo No.</b><br>2                      | <b>Date:</b><br>5/11/06 |  |
| <b>Direction Photo Taken:</b> Northeast    |                         |  |
| <b>Description:</b><br>Canopy/carport area |                         |  |



|   |                         |  |
|---|-------------------------|--|
| <b>Photo No.</b><br>3                             | <b>Date:</b><br>2/16/06 |  |
| <b>Direction Photo Taken:</b> East                |                         |  |
| <b>Description:</b><br>View of water supply well. |                         |  |
|   |                         |  |

|   |                         |  |
|---|-------------------------|--|
| <b>Photo No.</b><br>4   | <b>Date:</b><br>5/11/06 |  |
| <b>Direction Photo Taken:</b> East  |                         |  |
| <b>Description:</b><br>Heating oil AST in overgrown area beside the house |                         |  |
|   |                         |  |

---

**APPENDIX 2**

**BORING LOGS**

---

Project Name: NCDOT Pineville PSAs

BORING NO: P 3-1

Project Number: 6-9300-3447

Project Location: Pineville, NC

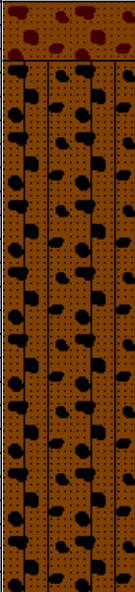
Drilling Company: EDPS

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  | GM   | 0                       |          |                 |
|            |  | <b>FILL</b><br>Gravel with fines  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Gravelly Sandy Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
| 4.0        |  |   |      |                         |          |                 |
| 6.0        |  | Refusal in Rock at 5' bgs   |      |                         |          |                 |
| 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 3-2

Project Number: 6-9300-3447

Project Location: Pineville, NC

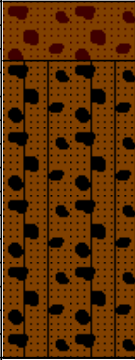
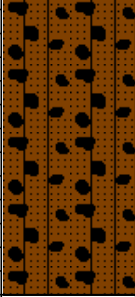
Drilling Company: EDPS

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  | GM   | 0                       |          |                 |
|            |  | <b>FILL</b><br>Gravel with fines  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Gravelly Sandy Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
|            |  |   |      |                         |          |                 |
| 4.0        |  | Refusal in Rock at 3' bgs   |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 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 3-3

Project Number: 6-9300-3447

Project Location: Pineville, NC

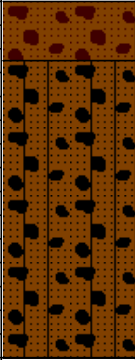
Drilling Company: EDPS

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  | GM   | 0                       |          |                 |
|            |  | <b>FILL</b><br>Gravel with fines  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Gravelly Sandy Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
| 3.0        |  | Refusal at 3' bgs   |      |                         |          |                 |
| 4.0        |  |   |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 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 3-4

Project Number: 6-9300-3447

Project Location: Pineville, NC


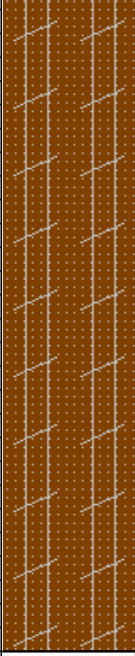
Drilling Company: EDPS

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<br><b>FILL</b><br>Gravel with fines                      | GM   | 0                       |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Sandy Clayey Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
| 4.0        |  |   |      | 0                       |          |                 |
| 6.0        |  | Refusal at 6' bgs   |      |                         |          |                 |
| 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 3-5

Project Number: 6-9300-3447

Project Location: Pineville, NC


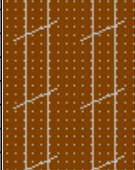
Drilling Company: EDPS

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        | <br> | Ground Surface  |      |                         |          |                 |
|            |  | <b>FILL</b><br>Gravel with fines  | GM   |                         |          |                 |
|            |  | <b>SAPROLITE</b><br><b>Sandy Clayey Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
| 2.0        |  | Refusal at 2' bgs   |      |                         |          |                 |
| 4.0        |  |   |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 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 3-6

Project Number: 6-9300-3447

Project Location: Pineville, NC

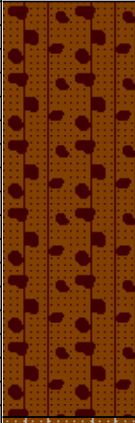
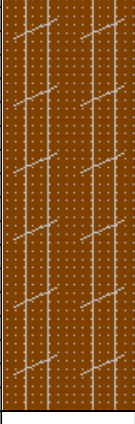
Drilling Company: EDPS

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   | ML   | 0                       |          |                 |
|            |   | <b>FILL</b><br><b>Gravelly Sandy Silt</b><br>Brown                             |      |                         |          |                 |
| 2.0        |  |  | ML   | 0                       |          |                 |
| 4.0        |   | <b>SAPROLITE</b><br><b>Clayey Sandy Silt</b><br>Orangish-brown and light brown |      |                         |          |                 |
| 6.0        |   |  |      | 0                       |          |                 |
| 8.0        |   | Refusal at 7' bgs  |      |                         |          |                 |

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 3-7

Project Number: 6-9300-3447

Project Location: Pineville, NC

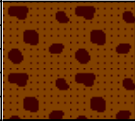
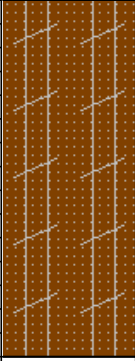
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

| Depth (ft) | Symbol   | Description   | USCS | Field PID Results (ppm) | Recovery | Sample Comments |
|------------|--|---|------|-------------------------|----------|-----------------|
| 0.0        |   | Ground Surface  | GM   | 0                       |          |                 |
|            |  | <b>Gravel with fines</b>  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Clayey Sandy Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
|            |  |   |      |                         |          |                 |
| 4.0        |  | <b>Refusal at 4' bgs</b>  |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 8.0        |  |   |      |                         |          |                 |

Hole Size: 3-1/2"

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

Project Name: NCDOT Pineville PSAs

BORING NO: P 3-8

Project Number: 6-9300-3447

Project Location: Pineville, NC

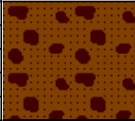
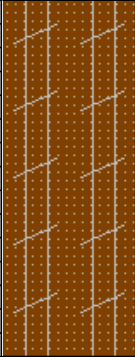
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

| Depth (ft) | Symbol   | Description   | USCS | Field PID Results (ppm) | Recovery | Sample Comments |
|------------|--|---|------|-------------------------|----------|-----------------|
| 0.0        |   | Ground Surface  | GM   | 0                       |          |                 |
|            |  | <b>Gravel with fines</b>  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Sandy Clayey Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
|            |  |   |      |                         |          |                 |
| 4.0        |  | <b>Refusal at 4' bgs</b>  |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 8.0        |  |   |      |                         |          |                 |

Hole Size: 3-1/2"

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

Project Name: NCDOT Pineville PSAs

BORING NO: P 3-9

Project Number: 6-9300-3447

Project Location: Pineville, NC

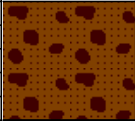
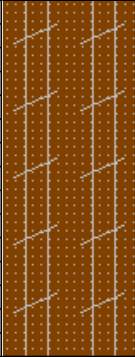
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

| Depth (ft) | Symbol   | Description   | USCS | Field PID Results (ppm) | Recovery | Sample Comments |
|------------|--|---|------|-------------------------|----------|-----------------|
| 0.0        |   | Ground Surface  | GM   | 0                       |          |                 |
|            |  | <b>Gravel with fines</b>  |      |                         |          |                 |
| 2.0        |  | <b>SAPROLITE</b><br><b>Sandy Clayey Silt</b><br>Orangish-brown and grey | ML   | 0                       |          |                 |
| 4.0        |  | <b>Refusal at 4' bgs</b>  |      |                         |          |                 |
| 6.0        |  |   |      |                         |          |                 |
| 8.0        |  |   |      |                         |          |                 |

Hole Size: 3-1/2"

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

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**APPENDIX 3**  
**GEOPHYSICAL SURVEY**

---

June 22, 2006

Ms. Helen Corley, L.G.  
AMEC Earth and Environmental  
9800 West Kincey Avenue  
Suite 190  
Huntersville, NC 28078

Via email (pdf)

cc: Mr. Cyrus Parker, Mr. Don Moore, NCDOT, via email (pdf)

RE: State Project: U-3447, WBS Element 34948.1.1, Mecklenburg County  
NC 51 from South Carolina State Line to SR 3645 (Downs Circle)

SUBJECT: Report on Geophysical Surveys for Locating Possible USTs on Parcel 003  
Schnabel Engineering Project No. 05211014.01-08

Dear Ms. Corley:

This letter contains our report on the geophysical surveys we conducted on the subject property. This letter report includes two 8.5x11 color figures and two 11x17 color figures.

## **1.0 INTRODUCTION**

The work described in this report was conducted by Schnabel Engineering under our contract with the NCDOT. The work was conducted at the location indicated by AMEC to support their environmental assessment of the subject parcel. The work was also extended to include an additional area to the east based on information provided by a previous tenant of the property. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (USTs) and associated metal product lines in the accessible areas of the site.

Schnabel Engineering conducted geophysical surveys on May 30 and June 6, 2006, in the accessible areas of the proposed right-of-way (ROW) sections of Parcel 003. This property, owned by BEBCO, LLC, is located approximately 3500 feet ENE of the North Carolina-South Carolina state line on the north side of NC 51 (Pineville – Rock Hill Rd). Photographs of Parcel 003 are included on Figure 1.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations were conducted using a Geophysical Survey Systems SIR-2000 system equipped with a 400 MHz antenna. Photographs of these instruments are shown in Figure 2.

## **2.0 FIELD METHODOLOGY**

### **2.1 Location Control**

An X-Y survey grid was set up on Parcel 003 to determine relative locations of geophysical data points and site features. References to direction and location in this report are based on this local site grid. The locations of existing site features (building, curbs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

### **2.2 Data Collection**

The EM61 data were collected in the accessible portions of the parcel along east-west trending parallel survey lines spaced approximately 2.5 feet apart. The EM61 data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected outside of the right-of-way in accessible areas around a tree and bushes, based on information provided by a previous tenant of the property. The GPR data were reviewed in the field to evaluate the possible presence of USTs. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.



### **3.0 DISCUSSION OF RESULTS**

The contoured EM61 data are shown on Figures 3 and 4. The EM61 early time gate results are plotted on Figure 3. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 4 shows the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as USTs.

At the time of the initial geophysical surveys on May 30, 2006, a large roll-off dumpster was located in the eastern portion of the survey area. Based on information provided by a previous tenant of the property, AMEC requested that we return to the site after the dumpster had been removed to survey the eastern portion of the survey area. On June 6, 2006, we returned to the site and collected EM61 data in the area where the dumpster had previously been located. Figures 3 and 4 show the EM61 data from the combined survey area.

The early time gate and differential results (Figures 3 and 4) show a small anomaly probably caused by an insignificant buried metal object and several anomalies caused by known site features. The observed anomalies not attributed to known site features have a reduced amplitude in the differential data set (Figure 4). GPR surveys were not conducted within right-of-way areas of the subject property. The GPR data collected outside of the right-of-way did not indicate the presence of USTs in the areas surveyed.

### **4.0 CONCLUSIONS**

Our evaluation of the geophysical data collected on Parcel 003 on State Project U-3447 in Mecklenburg County, NC indicate the following:


- The geophysical data do not indicate the presence of USTs in the areas surveyed on Parcel 003.

## 5.0 LIMITATIONS

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

Thank you for the opportunity to serve you on this project. Please call if you need additional information or have any questions.

Sincerely,



Jeremy S. Strohmeyer, L.G.  
Project Manager

FR/JS/RC  
Attachment: Figures (1-4)



Parcel 003, BEBCO, LLC Property, looking northeast



Parcel 003, BEBCO, LLC Property, looking northwest



NC Department of Transportation  
Geotechnical Engineering Unit

State Project No. U-3447  
Mecklenburg County, North Carolina

**SITE PHOTOS**

FIGURE 1



Geonics EM61-MK2



Geophysical Survey Systems SIR-2000 with 400 MHz antenna

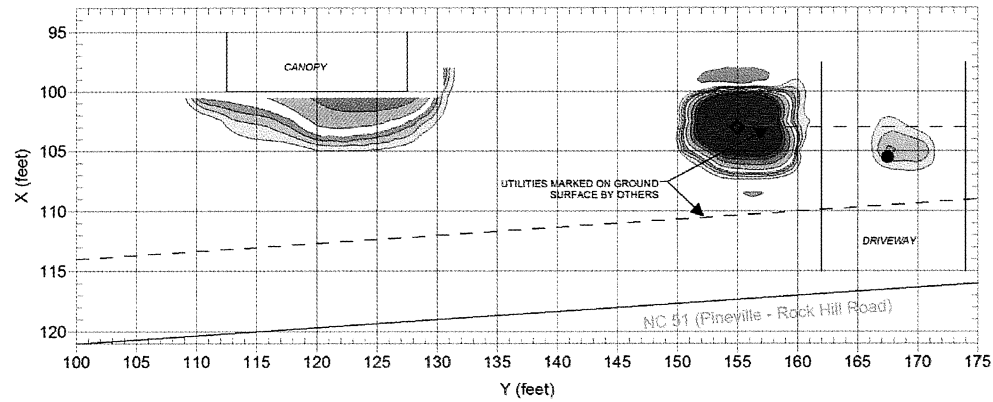


NC Department of Transportation  
Geotechnical Engineering Unit

State Project No. U-3447  
Mecklenburg County, North Carolina

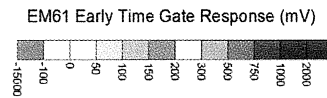
**PHOTOS OF  
GEOPHYSICAL  
EQUIPMENT**

FIGURE 2



**EXPLANATION**

- EM61 SURVEY AREA - DATA ACQUIRED ALONG EAST-WEST TRENDS, PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
- BOREHOLE
- ◇ WATERMETER LID



Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on May 30 and June 6, 2006, using a Geonics EM61-MK2 instrument. An X-Y survey grid was set up across this parcel as location control for the geophysical surveys.



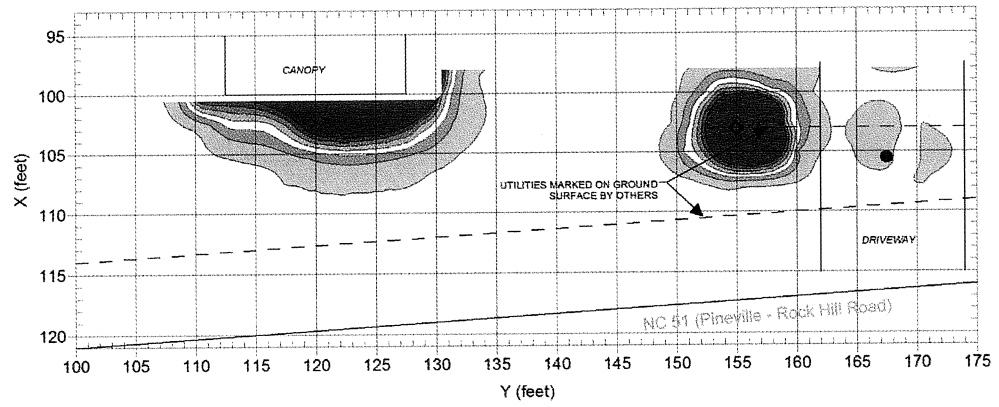
NC Department of Transportation  
Geotechnical Engineering Unit

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State Project No. U-3447  
Mecklenburg County, North Carolina

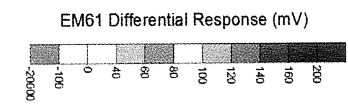
**PARCEL 003  
EM61 EARLY TIME  
GATE RESPONSE**

FIGURE 3



**EXPLANATION**

- EMS1 SURVEY AREA - DATA ACQUIRED ALONG EAST-WEST TRENDSING PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
- BOREHOLE
- ◇ WATERMETER LID



Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as pipes and tanks. The EM data were collected on May 30 and June 6, 2006, using a Geonics EM61-MK2 instrument. An X-Y survey grid was set up across this parcel as location control for the geophysical surveys.



NC Department of Transportation  
Geotechnical Engineering Unit

---

State Project No. U-3447  
Mecklenburg County, North Carolina

**PARCEL 003  
DIFFERENTIAL  
RESPONSE**

FIGURE 4

---

**APPENDIX 4**

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

---

June 14, 2006

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

RE: Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

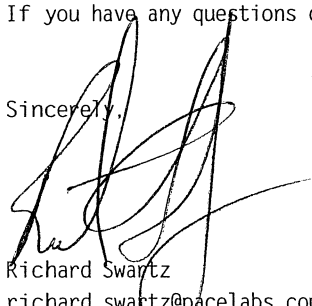
Dear Ms. Corley:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 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

## 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



Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Solid results are reported on a dry weight basis

Lab Sample No: 927042184      Project Sample Number: 92120391-001      Date Collected: 05/31/06 12:00  
Client Sample ID: P3-1      Matrix: Soil      Date Received: 05/31/06 17:15

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

**Wet Chemistry**

|                  |                    |   |  |                |     |  |  |  |
|------------------|--------------------|---|--|----------------|-----|--|--|--|
| Percent Moisture | Method: % Moisture |   |  |                |     |  |  |  |
| Percent Moisture | 5.4                | % |  | 06/01/06 10:11 | TNM |  |  |  |

**GC Semivolatiles**

|                          |                                  |       |     |                |     |            |   |  |
|--------------------------|----------------------------------|-------|-----|----------------|-----|------------|---|--|
| TPH in Soil by 3545/8015 | Prep/Method: EPA 3545 / EPA 8015 |       |     |                |     |            |   |  |
| Diesel Fuel              | 35.                              | mg/kg | 26. | 06/10/06 02:19 | KBS | 68334-30-5 | 1 |  |
| n-Pentacosane (S)        | 128                              | %     |     | 06/10/06 02:19 | 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 | 4.6 | 06/10/06 08:12 | DHW |          |  |  |
| 4-Bromofluorobenzene (S)  | 100              | %     |     | 06/10/06 08:12 | DHW | 460-00-4 |  |  |

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

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042192      Project Sample Number: 92120391-002      Date Collected: 05/31/06 12:15  
Client Sample ID: P3-2      Matrix: Soil      Date Received: 05/31/06 17:15

| Parameters                | Results                          | Units | Report Limit | Analyzed       | By  | CAS No.    | Qual | RegLmt |
|---------------------------|----------------------------------|-------|--------------|----------------|-----|------------|------|--------|
| <b>Wet Chemistry</b>      |                                  |       |              |                |     |            |      |        |
| Percent Moisture          | Method: % Moisture               |       |              |                |     |            |      |        |
| Percent Moisture          | 6.2                              | %     |              | 06/01/06 10:12 | TNM |            |      |        |
| <b>GC Semivolatiles</b>   |                                  |       |              |                |     |            |      |        |
| TPH in Soil by 3545/8015  | Prep/Method: EPA 3545 / EPA 8015 |       |              |                |     |            |      |        |
| Diesel Fuel               | 16.                              | mg/kg | 5.3          | 06/10/06 01:40 | KBS | 68334-30-5 |      |        |
| n-Pentacosane (S)         | 57                               | %     |              | 06/10/06 01:40 | KBS | 629-99-2   |      |        |
| Date Extracted            | 06/08/06                         |       |              | 06/08/06       |     |            |      |        |
| <b>GC Volatiles</b>       |                                  |       |              |                |     |            |      |        |
| GAS, Soil, North Carolina | Method: EPA 8015                 |       |              |                |     |            |      |        |
| Gasoline                  | ND                               | mg/kg | 4.3          | 06/10/06 09:10 | DHW |            |      |        |
| 4-Bromofluorobenzene (S)  | 94                               | %     |              | 06/10/06 09:10 | DHW | 460-00-4   |      |        |

Date: 06/14/06

Page: 2 of 15

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

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



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

Lab Project Number: 92120391  
 Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042200      Project Sample Number: 92120391-003      Date Collected: 05/31/06 12:30  
 Client Sample ID: P3-3      Matrix: Soil      Date Received: 05/31/06 17:15

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

**Wet Chemistry**

|                  |                    |   |  |                |     |  |  |  |
|------------------|--------------------|---|--|----------------|-----|--|--|--|
| Percent Moisture | Method: % Moisture |   |  |                |     |  |  |  |
| Percent Moisture | 6.3                | % |  | 06/01/06 10:12 | TNM |  |  |  |

**GC Semivolatiles**

|                          |                                  |       |     |                |     |            |  |  |
|--------------------------|----------------------------------|-------|-----|----------------|-----|------------|--|--|
| TPH in Soil by 3545/8015 | Prep/Method: EPA 3545 / EPA 8015 |       |     |                |     |            |  |  |
| Diesel Fuel              | 8.0                              | mg/kg | 5.3 | 06/13/06 19:30 | KBS | 68334-30-5 |  |  |
| n-Pentacosane (S)        | 96                               | %     |     | 06/13/06 19:30 | 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 | 4.5 | 06/10/06 10:08 | DHW |          |  |  |
| 4-Bromofluorobenzene (S)  | 90               | %     |     | 06/10/06 10:08 | DHW | 460-00-4 |  |  |

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042218      Project Sample Number: 92120391-004      Date Collected: 05/31/06 12:45  
Client Sample ID: P3-4      Matrix: Soil      Date Received: 05/31/06 17:15

| Parameters                | Results                          | Units | Report Limit | Analyzed       | By  | CAS No.    | Qual | RegLmt |
|---------------------------|----------------------------------|-------|--------------|----------------|-----|------------|------|--------|
| <b>Wet Chemistry</b>      |                                  |       |              |                |     |            |      |        |
| Percent Moisture          | Method: % Moisture               |       |              |                |     |            |      |        |
| Percent Moisture          | 8.3                              | %     |              | 06/01/06 16:44 | TNM |            |      |        |
| <b>GC Semivolatiles</b>   |                                  |       |              |                |     |            |      |        |
| TPH in Soil by 3545/8015  | Prep/Method: EPA 3545 / EPA 8015 |       |              |                |     |            |      |        |
| Diesel Fuel               | ND                               | mg/kg | 5.5          | 06/09/06 19:15 | KBS | 68334-30-5 |      |        |
| n-Pentacosane (S)         | 63                               | %     |              | 06/09/06 19:15 | KBS | 629-99-2   |      |        |
| Date Extracted            | 06/08/06                         |       |              | 06/08/06       |     |            |      |        |
| <b>GC Volatiles</b>       |                                  |       |              |                |     |            |      |        |
| GAS, Soil, North Carolina | Method: EPA 8015                 |       |              |                |     |            |      |        |
| Gasoline                  | ND                               | mg/kg | 4.3          | 06/10/06 10:36 | DHW |            |      |        |
| 4-Bromofluorobenzene (S)  | 86                               | %     |              | 06/10/06 10:36 | DHW | 460-00-4   |      |        |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
 9800 Kinsey 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: 92120391  
 Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042226      Project Sample Number: 92120391-005      Date Collected: 05/31/06 13:00  
 Client Sample ID: P3-5      Matrix: Soil      Date Received: 05/31/06 17:15

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

**Wet Chemistry**

|                  |                    |   |  |                |     |  |  |  |
|------------------|--------------------|---|--|----------------|-----|--|--|--|
| Percent Moisture | Method: % Moisture |   |  |                |     |  |  |  |
| Percent Moisture | 7.6                | % |  | 06/01/06 16:45 | TNM |  |  |  |

**GC Semivolatiles**

| TPH in Soil by 3545/8015 | Prep/Method: EPA 3545 / EPA 8015 |       |     |                |     |            |  |  |
|--------------------------|----------------------------------|-------|-----|----------------|-----|------------|--|--|
| Diesel Fuel              | ND                               | mg/kg | 5.4 | 06/13/06 13:44 | KBS | 68334-30-5 |  |  |
| n-Pentacosane (S)        | 77                               | %     |     | 06/13/06 13:44 | 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 | 4.1 | 06/10/06 11:05 | DHW |          |  |  |
| 4-Bromofluorobenzene (S)  | 83               | %     |     | 06/10/06 11:05 | DHW | 460-00-4 |  |  |

Asheville Certification IDs

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

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Charlotte Certification IDs

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

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042234      Project Sample Number: 92120391-006      Date Collected: 05/31/06 13:15  
Client Sample ID: P3-6      Matrix: Soil      Date Received: 05/31/06 17:15

| Parameters                | Results                          | Units | Report Limit | Analyzed       | By  | CAS No.    | Qual | RegLmt |
|---------------------------|----------------------------------|-------|--------------|----------------|-----|------------|------|--------|
| <b>Wet Chemistry</b>      |                                  |       |              |                |     |            |      |        |
| Percent Moisture          | Method: % Moisture               |       |              |                |     |            |      |        |
| Percent Moisture          | 20.8                             | %     |              | 06/01/06 16:45 | TNM |            |      |        |
| <b>GC Semivolatiles</b>   |                                  |       |              |                |     |            |      |        |
| TPH in Soil by 3545/8015  | Prep/Method: EPA 3545 / EPA 8015 |       |              |                |     |            |      |        |
| Diesel Fuel               | ND                               | mg/kg | 6.3          | 06/13/06 14:06 | KBS | 68334-30-5 |      |        |
| n-Pentacosane (S)         | 89                               | %     |              | 06/13/06 14:06 | KBS | 629-99-2   |      |        |
| Date Extracted            | 06/12/06                         |       |              | 06/12/06       |     |            |      |        |
| <b>GC Volatiles</b>       |                                  |       |              |                |     |            |      |        |
| GAS, Soil, North Carolina | Method: EPA 8015                 |       |              |                |     |            |      |        |
| Gasoline                  | ND                               | mg/kg | 5.1          | 06/10/06 11:34 | DHW |            |      |        |
| 4-Bromofluorobenzene (S)  | 80                               | %     |              | 06/10/06 11:34 | DHW | 460-00-4   |      |        |

Date: 06/14/06

Page: 6 of 15

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

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

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042242      Project Sample Number: 92120391-007      Date Collected: 05/31/06 13:40  
Client Sample ID: P3-7      Matrix: Soil      Date Received: 05/31/06 17:15

| Parameters                | Results                          | Units | Report Limit | Analyzed       | By  | CAS No.    | Qual | RegLmt |
|---------------------------|----------------------------------|-------|--------------|----------------|-----|------------|------|--------|
| <b>Wet Chemistry</b>      |                                  |       |              |                |     |            |      |        |
| Percent Moisture          | Method: % Moisture               |       |              |                |     |            |      |        |
| Percent Moisture          | 11.5                             | %     |              | 06/01/06 16:45 | TNM |            |      |        |
| <b>GC Semivolatiles</b>   |                                  |       |              |                |     |            |      |        |
| TPH in Soil by 3545/8015  | Prep/Method: EPA 3545 / EPA 8015 |       |              |                |     |            |      |        |
| Diesel Fuel               | ND                               | mg/kg | 5.6          | 06/13/06 14:27 | KBS | 68334-30-5 |      |        |
| n-Pentacosane (S)         | 47                               | %     |              | 06/13/06 14:27 | KBS | 629-99-2   | 2    |        |
| Date Extracted            | 06/12/06                         |       |              | 06/12/06       |     |            |      |        |
| <b>GC Volatiles</b>       |                                  |       |              |                |     |            |      |        |
| GAS, Soil, North Carolina | Method: EPA 8015                 |       |              |                |     |            |      |        |
| Gasoline                  | ND                               | mg/kg | 4.4          | 06/10/06 12:03 | DHW |            |      |        |
| 4-Bromofluorobenzene (S)  | 82                               | %     |              | 06/10/06 12:03 | DHW | 460-00-4   |      |        |

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Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042259      Project Sample Number: 92120391-008      Date Collected: 05/31/06 14:00  
Client Sample ID: P3-8      Matrix: Soil      Date Received: 05/31/06 17:15

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

**Wet Chemistry**

|                  |                    |   |  |                |     |  |  |  |
|------------------|--------------------|---|--|----------------|-----|--|--|--|
| Percent Moisture | Method: % Moisture |   |  |                |     |  |  |  |
| Percent Moisture | 23.9               | % |  | 06/01/06 16:46 | 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 15:26 | KBS | 68334-30-5 |  |  |
| n-Pentacosane (S)        | 78                               | %     |     | 06/13/06 15:26 | 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 | 6.2 | 06/10/06 12:32 | DHW |          |  |  |
| 4-Bromofluorobenzene (S)  | 86               | %     |     | 06/10/06 12:32 | DHW | 460-00-4 |  |  |

Date: 06/14/06

Page: 8 of 15

Asheville Certification IDs

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

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Charlotte Certification IDs

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



Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

Lab Sample No: 927042267      Project Sample Number: 92120391-009      Date Collected: 05/31/06 14:15  
Client Sample ID: P3-9      Matrix: Soil      Date Received: 05/31/06 17:15

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

**Wet Chemistry**

|                  |                    |   |  |                |     |  |  |  |
|------------------|--------------------|---|--|----------------|-----|--|--|--|
| Percent Moisture | Method: % Moisture |   |  |                |     |  |  |  |
| Percent Moisture | 9.6                | % |  | 06/01/06 16:46 | TNM |  |  |  |

**GC Semivolatiles**

|                          |                                  |       |     |                |     |            |  |  |
|--------------------------|----------------------------------|-------|-----|----------------|-----|------------|--|--|
| TPH in Soil by 3545/8015 | Prep/Method: EPA 3545 / EPA 8015 |       |     |                |     |            |  |  |
| Diesel Fuel              | ND                               | mg/kg | 5.5 | 06/13/06 17:20 | KBS | 68334-30-5 |  |  |
| n-Pentacosane (S)        | 56                               | %     |     | 06/13/06 17:20 | 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 | 4.2 | 06/10/06 13:01 | DHW |          |  |  |
| 4-Bromofluorobenzene (S)  | 81               | %     |     | 06/10/06 13:01 | DHW | 460-00-4 |  |  |

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Lab Project Number: 92120391

Client Project ID: NCDOT Pineville/WBS#34948.1.1

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## 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] The sample extract could not be concentrated to the normal final volume. This resulted in an elevated reporting limit.  
[2] Low surrogate recovery was confirmed as a matrix effect by a second analysis.

### 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

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

---

QC Batch: 159210                                      Analysis Method: EPA 8015  
 QC Batch Method: EPA 3545                      Analysis Description: TPH in Soil by 3545/8015  
 Associated Lab Samples:                      927042184    927042192    927042200    927042218    927042226  
    927042234    927042242    927042259    927042267

---

METHOD BLANK: 927067546  
 Associated Lab Samples:                      927042184    927042192    927042200    927042218    927042226    927042234    927042242  
    927042259    927042267

---

| <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) | %            | 50                  |                        |                  |

---

LABORATORY CONTROL SAMPLE: 927067553

| <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             | 97.14             | 58               |                  |
| n-Pentacosane (S) |              |                    |                   | 63               |                  |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927067561 927067579

| <u>Parameter</u>  | <u>Units</u> | 927042259 <u>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        | 1.213                   | 219.00             | 116.4            | 110.2             | 53              | 50               | 6          |                  |
| n-Pentacosane (S) |              |                         |                    |                  |                   | 57              | 53               |            |                  |

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QUALITY CONTROL DATA

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

QC Batch: 159370 Analysis Method: EPA 8015  
QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina  
Associated Lab Samples: 927042184 927042192 927042200 927042218 927042226  
927042234 927042242 927042259 927042267

METHOD BLANK: 927074625  
Associated Lab Samples: 927042184 927042192 927042200 927042218 927042226 927042234 927042242  
927042259 927042267

| Parameter                | Units | Blank Result | Reporting Limit | Footnotes |
|--------------------------|-------|--------------|-----------------|-----------|
| Gasoline                 | mg/kg | ND           | 5.0             |           |
| 4-Bromofluorobenzene (S) | %     | 98           |                 |           |

LABORATORY CONTROL SAMPLE: 927074633

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|--------------------------|-------|-------------|------------|-----------|-----------|
| Gasoline                 | mg/kg | 25.00       | 26.10      | 104       |           |
| 4-Bromofluorobenzene (S) |       |             |            | 98        |           |

MATRIX SPIKE: 927074641

| Parameter                | Units | 927042184 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|--------------------------|-------|------------------|-------------|-----------|----------|-----------|
| Gasoline                 | mg/kg | 1.124            | 23.01       | 24.46     | 101      |           |
| 4-Bromofluorobenzene (S) |       |                  |             |           | 94       |           |

SAMPLE DUPLICATE: 927074658

| Parameter                | Units | 927042192 Result | DUP Result | RPD | Footnotes |
|--------------------------|-------|------------------|------------|-----|-----------|
| Gasoline                 | mg/kg | ND               | ND         | NC  |           |
| 4-Bromofluorobenzene (S) | %     | 94               | 96         |     |           |

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**QUALITY CONTROL DATA**

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

|                         |  |
|-------------------------|--|
| QC Batch: 158643        | Analysis Method: % Moisture            |
| QC Batch Method:        | Analysis Description: Percent Moisture |
| Associated Lab Samples: | 927042184 927042192 927042200          |

SAMPLE DUPLICATE: 927043224

| <u>Parameter</u> | <u>Units</u> | 927039859<br><u>Result</u> | DUP<br><u>Result</u> | <u>RPD</u> | <u>Footnotes</u> |
|------------------|--------------|----------------------------|----------------------|------------|------------------|
| Percent Moisture | %            | 14.00                      | 11.10                | 23         |                  |

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QUALITY CONTROL DATA

Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

QC Batch: 158718  
QC Batch Method:  
Associated Lab Samples: 927042218 927042226 927042234 927042242 927042259  
927042267

Analysis Method: % Moisture

Analysis Description: Percent Moisture

SAMPLE DUPLICATE: 927046516

| Parameter        | Units | 927044248 |               | RPD | Footnotes |
|------------------|-------|-----------|---------------|-----|-----------|
|                  |       | Result    | DUP<br>Result |     |           |
| Percent Moisture | %     | 11.70     | 11.60         | 1   |           |

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Lab Project Number: 92120391  
Client Project ID: NCDOT Pineville/WBS#34948.1.1

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

**REPORT OF LABORATORY ANALYSIS**

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**Section A**  
Required Client Information:

Company: *AMEC*  
Address: *9800 West K. Hwy Austin 190  
Durham, NC 28078*  
Email To: *helen.cortley@amec.com*  
Phone: *704 875 3570* Fax: *704 875 8718*  
Requested Due Date/TAT:

**Section B**  
Required Project Information:

Report To: *Helen Cortley*  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: *NC DOT - Tarville - Parcel 3*  
Project Number: *69300 3447*

**Section C**  
Invoice Information:

Attention: *Bill Medford*  
Company Name: *NC DOT Geotechnical*  
Address: *Raleigh*  
Pace Quote Reference: *WBS Element 34948.1*  
Pace Project Manager: *Richard Swartz*  
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 # | Valid Matrix Codes |             |                 |                    |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
|--------|--------------------|-------------|-----------------|--------------------|---------------------------|-----------------|---------------|--|--|--|----------------|--|--|--|--|--|--|--|--|--|
|        | MATRIX CODE        | SAMPLE TYPE | COMPOSITE START | COMPOSITE END/GRAB | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |  |  |  | Filtered (Y/N) |  |  |  |  |  |  |  |  |  |
| 1      | P                  | 3           | -               | 1                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 2      | P                  | 3           | -               | 2                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 3      | P                  | 3           | -               | 3                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 4      | P                  | 3           | -               | 4                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 5      | P                  | 3           | -               | 5                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 6      | P                  | 3           | -               | 6                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 7      | P                  | 3           | -               | 7                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 8      | P                  | 3           | -               | 8                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |
| 9      | P                  | 3           | -               | 9                  |                           |                 |               |  |  |  |                |  |  |  |  |  |  |  |  |  |

| MATRIX CODE | SAMPLE TYPE | COMPOSITE START | COMPOSITE END/GRAB | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other | Filtered (Y/N) | Requested Analysis: |
|-------------|-------------|-----------------|--------------------|---------------------------|-----------------|-------------|--------------------------------|------------------|-----|------|---|----------|-------|----------------|---------------------|
| SL          | G           |                 |                    |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |

| DATE | TIME | DATE    | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other | Filtered (Y/N) | Requested Analysis: |
|------|------|---------|------|---------------------------|-----------------|-------------|--------------------------------|------------------|-----|------|---|----------|-------|----------------|---------------------|
|      |      | 5/31/16 | 1200 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1215 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1230 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1245 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1300 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1315 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1340 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1400 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |
|      |      |         | 1415 |                           |                 |             |                                |                  |     |      |   |          |       |                |                     |

Pace Project Number  
Lab I.D.

*72120391*

*TAP - GAO*  
*TAP - DRD*

*2184*  
*2172*  
*2200*  
*2218*  
*2226*  
*2234*  
*2242*  
*2259*  
*2267*

Additional Comments:  
*Please call with any questions*

| RELINQUISHED BY / AFFILIATION | DATE           | TIME        | ACCEPTED BY / AFFILIATION | DATE           | TIME        | SAMPLE CONDITION                    |
|-------------------------------|----------------|-------------|---------------------------|----------------|-------------|-------------------------------------|
| <i>Kelly Phillips / AMEC</i>  | <i>5/31/16</i> | <i>1115</i> | <i>Bill Medford</i>       | <i>5/31/16</i> | <i>1715</i> | <i>U. 8. 25 Y/N Y/N Y/N Y/N Y/N</i> |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:  
*Kelly Phillips*

SIGNATURE of SAMPLER:  
*Kelly Phillips*

DATE Signed (MM/DD/YY)  
*5/31/16*

Temp in °C: \_\_\_\_\_

ad on Ice: \_\_\_\_\_

Custody Sealed Cooler: \_\_\_\_\_

Samples Intact: \_\_\_\_\_