

March 21, 2012

Mr. Terry Fox, LG
North Carolina Department of Transportation
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: Preliminary Site Assessment
Bill Young Property (Parcel #87)
7166 US 19E
Burnsville, Yancey County, North Carolina
NCDOT Tip No. R-2519B
WBS Element 35609.1.1
AECOM Project No. 60241470

Dear Mr. Fox:

AECOM Technical Services of North Carolina, Inc., (AECOM) has completed the Preliminary Site Assessment conducted at the above-referenced property. The work was performed in accordance with the Technical and Cost proposal dated January 12, 2012, and the North Carolina Department of Transportation's (NCDOT's) Notice to Proceed dated January 18, 2012. Activities associated with the assessment consisted of conducting a geophysical investigation, collecting soil samples for laboratory analysis, and reviewing applicable North Carolina Department of Environment and Natural Resources (NCDENR) records. The purpose of this report is to document the field activities, present the laboratory analyses, and provide recommendations regarding the property.

Location and Description

The Bill Young Property (Parcel #87) is located at 7166 US 19E in Burnsville, Yancey County, North Carolina. The property is situated on the south side of US 19E approximately 500 feet east of the intersection of US 19E and Newdale Church Road (Figure 1). Based on information supplied by the NCDOT and the site visit, AECOM understands that the site is a farm equipment sales and service facility where three underground storage tanks (USTs) were reportedly operated and subsequently removed. According to the landowner, these USTs included two 3,000-gallon gasoline and one 3,000-gallon diesel fuel tank that were removed in 1990. The structure on the site consists of a two-story metal building with one shed on the east side and a repair bay on the west side. The former USTs were located in front of the building near the east side. No dispenser island or evidence of the USTs was noted during the investigation. A gravel driveway is located in front of the building. The property, including the proposed right-of-way, is heavily cluttered with various items. The front of the property is used for display of new farm

machinery for sale. The east side of the property houses a helicopter and farm machinery parts. The immediate front of the building encompasses parts and miscellaneous metal debris. A fuel oil above ground storage tank is located on the west side of the building, but just outside the proposed right-of-way. Several empty 55-gallon drums with unknown contents, stained soil, used vehicle batteries (about 20 to 24 batteries uncovered and stacked on a pallet, no leakage observed), used oil filters, tires, and miscellaneous junk are situated within the proposed right-of-way on the northwest corner of the building. The remaining western portion of the property is used to store various material including tires, metal debris, machinery and parts. A sawmill is located in the central portion of this area (Figure 2). The NCDOT has advised that the proposed right-of-way will not affect the building, but will disturb the former UST area. The former USTs created an area of potential environmental concern and the NCDOT requested a Preliminary Site Assessment. The scope of work as defined in the Request for Technical and Cost Proposal was to evaluate the existing right-of-way with respect to the presence of known and unknown USTs and assess where contamination may exist on the right-of-way. If present, an estimate of the quantity of impacted soil was to be provided.

AECOM reviewed the on-line NCDENR Incident Management database and no Incident Number has been assigned to the property. AECOM also examined the UST registration database to obtain UST ownership information. As noted previously, three USTs were operated and removed from the site under Facility ID 0-008101. The database lists the operator and owner of the tanks as follows:

Owner

D. O. Blevins Sons, Inc.
PO Box 626
Spruce Pine, NC 28777

Operator

Young Tractor Co.
1766 US 19E
Burnsville, NC 28714

Geophysical Survey

During AECOM's initial site visit, we were able to discuss the site with the landowner, Mr. Bill Young. Mr. Young indicated that he has owned the land prior to being developed into the farm machinery sales facility. He stated that he installed and removed the tanks and that no other USTs have been or currently were on the property. Metallic parts and machinery throughout the site that could not be moved would have caused unacceptable interference with a geophysical survey. Based on Mr. Young's information and the presence of the metallic debris, AECOM advised the NCDOT that a geophysical survey on the site would not yield accurate or defensible data. As a result, the NCDOT directed AECOM not to conduct a geophysical survey on the Young property.

Site Assessment Activities

On February 22, 2012, AECOM mobilized to the site to conduct a Geoprobe[®] direct push investigation to evaluate soil conditions within the proposed right-of-way. Continuous sampling using direct push technology (Regional Probing of Wake Forest, North Carolina) resulted in generally good recovery of soil samples from the direct-push holes. Soil samples were collected and contained in acetate sleeves inside the direct push sampler. Each of these sleeves was divided into 2-foot long sections for soil sample screening. Each 2-foot interval was placed in a resealable plastic bag and the bag was set aside for a sufficient amount of time to allow volatilization of organic compounds from the soil to the bag headspace. The probe of a flame ionization detector/photo ionization detector (FID/PID) was inserted into the bag and the reading was recorded. After terminating the sample hole, the soil sample from the depth interval with the highest FID/PID reading was submitted for analysis to Pace Analytical in Asheville, North Carolina, using standard chain-of-custody procedures. The laboratory analyzed the soil samples for total petroleum hydrocarbons (TPH) in the diesel range organics (DRO) and gasoline range organics (GRO).

Six direct-push holes (BY-1 through BY-6) were advanced within the proposed right-of-way to depths ranging from 4 to 12 feet as shown in Figure 2 and Attachment A. Borings BY-1 and BY-2 were located to evaluate the soil conditions at the former UST area; borings BY-3 and BY-4 were placed to assess the soil conditions along the proposed right-of-way; boring BY-5 was situated in a parts are in front of the building; and boring BY-6 was located to evaluate the stained soil area at the northwest corner of the building (Attachment B). The lithology encountered by the direct-push samples generally was consistent throughout the site. About 2 inches of gravel covered the ground surface. Below the surface to a depth of about 4 to 6 feet was a medium brown, micaceous, silty medium-grained sand. Under this material was a dark to olive gray, organic, silty clay. None of the borings encountered bedrock.

The “Geologic Map of North Carolina” dated 1985 indicates that the Alligator Formation underlies the site. This formation consists of amphibolites and gneiss. The amphibolite is described as equigranular, massive to well foliated, metamorphosed intrusive and extrusive mafic rock. The gneiss is a finely laminated to thinly layered and locally contains massive gneiss and micaceous granule conglomerate. In addition to these rock types, quartz diorite intrusions are common in the area. The soil observed at the site is consistent with these parent rocks. The borings were terminated at a depths ranging from 4 to 12 feet. Groundwater was observed in all the borings, generally at about 10 to 12 feet. Boring BY-6 encountered groundwater at a depth of 4 feet. Based on field screening, soil samples were submitted for laboratory analyses, which are summarized in Table 1. Following completion, each boring was backfilled in accordance with 15A NCAC 2C.

Mr. Terry Fox
March 21, 2012
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Analytical Results

Based on the soil laboratory reports, summarized in Table 1 and presented in Attachment C, no petroleum hydrocarbon compounds identified as DRO and/or GRO were detected in any of the six soil samples collected from the site on February 21, 2012. Consequently, no soil concentrations are present above applicable action levels.

Conclusions and Recommendations

A Preliminary Site Assessment was conducted to evaluate the Bill Young Property (Parcel #87) located at 7166 US 19E in Burnsville, Yancey County, North Carolina. A geophysical investigation was not conducted because of the presence of metal throughout the property. The landowner indicated that he was knowledgeable about the site history and three USTs were installed and removed. Six soil borings were advanced to evaluate the soil conditions throughout the proposed right-of-way. The laboratory reports of the soil samples from these borings suggest that no DRO or GRO concentrations were detected. Consequently, no soil concentrations are above applicable action levels.

AECOM appreciates the opportunity to work with the NCDOT on this project. Because laboratory analysis detected no compounds above the applicable action levels in the soil samples, no NCDENR notification is required. If you have any questions, please contact me at (919) 854-6238.

Sincerely,

Michael W. Branson, P.G.
Project Manager

Attachments

c: Project File



TABLE 1

**SOIL FIELD SCREENING AND ANALYTICAL RESULTS
 BILL YOUNG PROPERTY (PARCEL #87)
 BURNSVILLE, YANCEY COUNTY, NORTH CAROLINA
 NCDOT PROJECT NO. R-2519B
 WBS ELEMENT 35609.1.1
 AECOM PROJECT NO. 60241470**

LOCATION	DEPTH (ft)	FID READING (ppm)	SAMPLE ID	ANALYTICAL RESULTS (mg/kg)	ASSUMED ACTION LEVEL (mg/kg)
BY-1	0 - 2	6.28			
	2 - 4	41	BY-1	DRO (BQL) GRO (BQL)	10 10
	4 - 6	7.57			
	6 - 8	7.49			
	8 - 10	3.61			
BY-2	0 - 2	7.18			
	2 - 4	6.62			
	4 - 6	21	BY-2	DRO (BQL) GRO (BQL)	10 10
	6 - 8	5.51			
	8 - 10	8.85			
BY-3	0 - 2	1.75			
	2 - 4	2.63			
	4 - 6	18.95	BY-3	DRO (BQL) GRO (BQL)	10 10
	6 - 8	16.61			
	8 - 10	14.28			
BY-4	0 - 2	2.61			
	2 - 4	2.73			
	4 - 6	2.39			
	6 - 8	3.03			
	8 - 10	3.06	BY-4	DRO (BQL) GRO (BQL)	10 10
BY-5	0 - 2	3.39			
	2 - 4	4.36			
	4 - 6	3.71			
	6 - 8	3.99			
	8 - 10	4.44	BY-5	DRO (BQL) GRO (BQL)	10 10
	10 - 12	3.82			
BY-6	0 - 2	2.75	BY-5	DRO (BQL) GRO (BQL)	10 10
	2 - 4	2.82			

Soil samples were collected on February 22, 2012.

DRO - Diesel range organics.

GRO - Gasoline range organics.

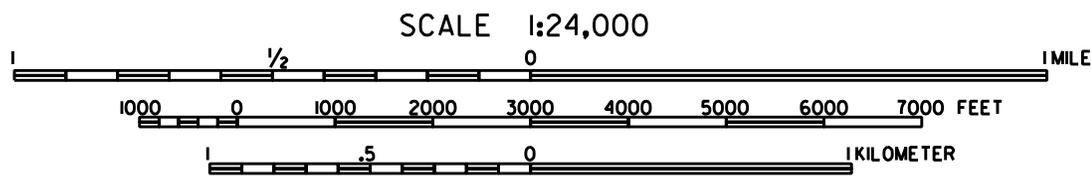
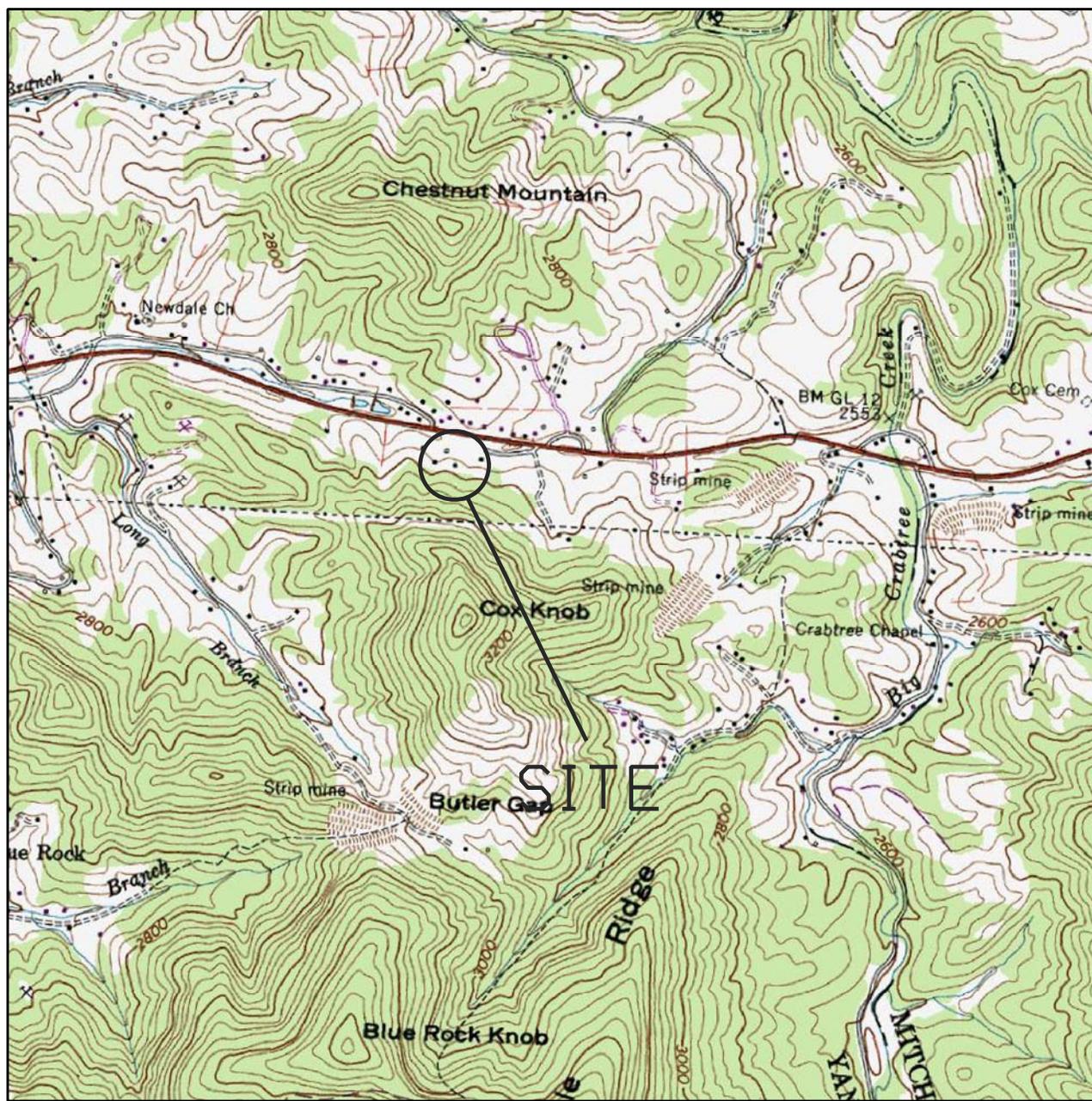
BQL - Below quantitation limit.

ppm - parts per million.

mg/kg - milligrams per kilogram.



FIGURES



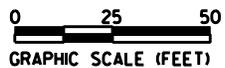
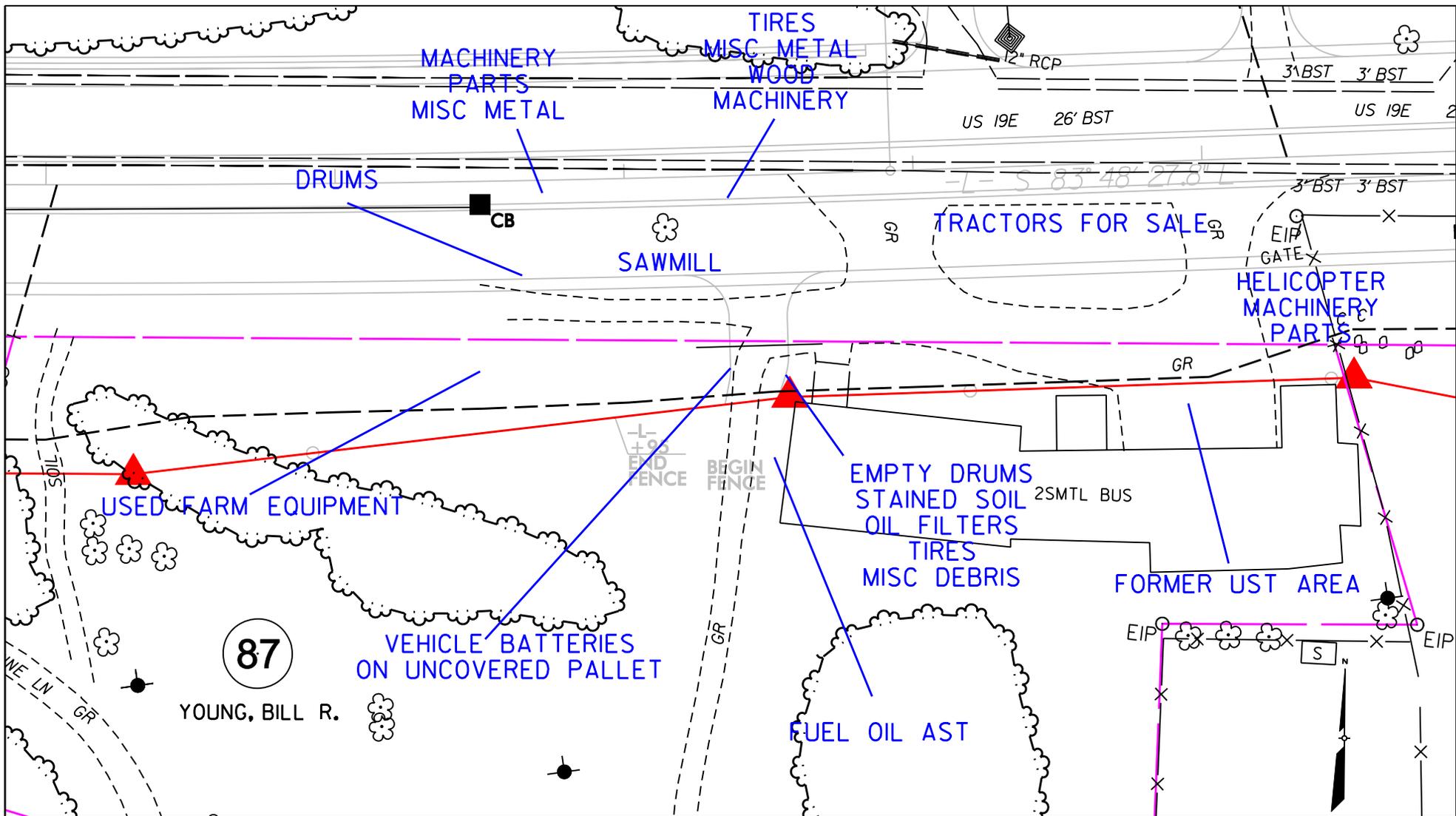
SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: MICAVILLE, NC



FIGURE I
VICINITY MAP
BILL YOUNG PROPERTY (PARCEL #87)
BURNSVILLE, YANCEY COUNTY NORTH CAROLINA

FEBRUARY 2012

60241470



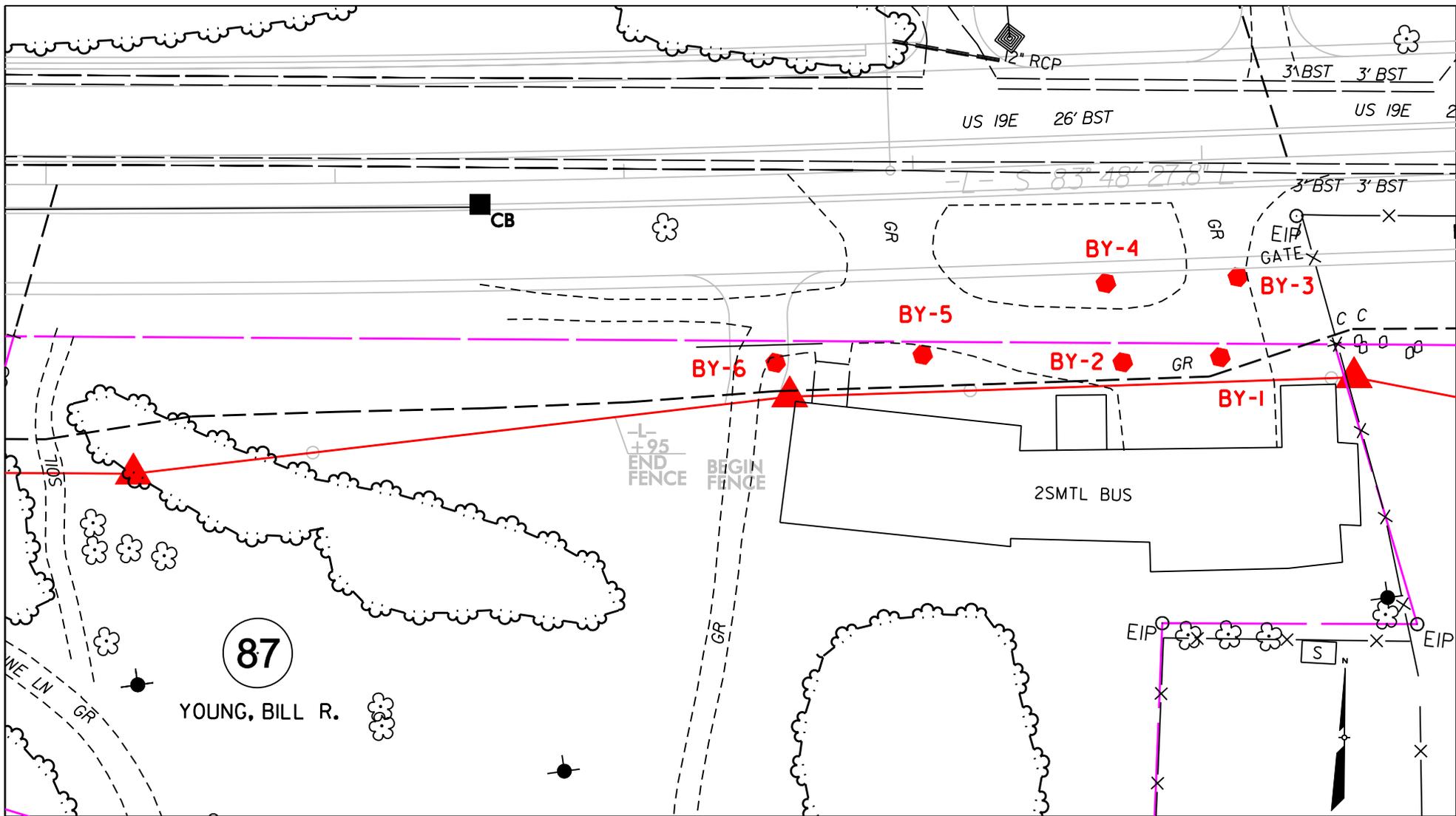
AECOM

**FIGURE 2
SITE MAP**

**BILL YOUNG PROPERTY (PARCEL #87)
BURNSVILLE, YANCEY COUNTY, NORTH CAROLINA**

FEBRUARY 2012

60241470



LEGEND

BY-1



SOIL SAMPLE LOCATION AND IDENTIFICATION

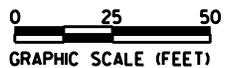


FIGURE 3

SOIL BORING LOCATION MAP
BILL YOUNG PROPERTY (PARCEL #87)
 BURNSVILLE, YANCEY COUNTY, NORTH CAROLINA

FEBRUARY 2012

60241470

ATTACHMENT A

TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-1</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	--

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			6.28		2" GRAVEL, MEDIUM BROWN, MICACEOUS, SILTY MEDIUM-GRAINED SAND. DRY, NO ODORS.
			41		AS ABOVE. DRY. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
5.0			7.57		OLIVE GRAY ORGANIC SILTY CLAY. DRY. NO ODORS.
			7.49		AS ABOVE. DRY. NO ODORS.
10.0			3.61		AS ABOVE. WET AT 10 FEET. NO ODORS.
					BORING TERMINATED AT 10 FEET. GROUNDWATER ENCOUNTERED AT 10 FEET.
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-2</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	--

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			7.18		2" GRAVEL, MEDIUM BROWN, MICACEOUS, SILTY MEDIUM-GRAINED SAND. DRY, NO ODORS.
			6.62		AS ABOVE. DRY. NO ODORS.
5.0			21		AS ABOVE. DRY. NO ODORS.
			5.51		OLIVE GRAY ORGANIC SILTY SAND, OCCASIONAL QUARTZ FRAGMENTS, OCCASIONAL WOODY DEBRIS. WETY AT 7.5 FEET. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
			8.85		AS ABOVE. DRY. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
10.0					AS ABOVE. WET. NO ODORS. NOT SAMPLED.
					BORING TERMINATED AT 12 FEET. GROUNDWATER ENCOUNTERED AT 10 FEET.
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-3</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
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DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			1.74		2" GRAVEL, MEDIUM BROWN, MICACEOUS, SILTY MEDIUM-GRAINED SAND. DRY, NO ODORS.
			2.63		AS ABOVE. DRY. NO ODORS.
			18.95		AS ABOVE. DRY. NO ODORS.
10.0			16.61		OLIVE GRAY ORGANIC SILTY SAND, OCCASIONAL QUARTZ FRAGMENTS, OCCASIONAL WOODY DEBRIS. WETY AT 7.5 FEET. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
			14.28		AS ABOVE. DRY. NO ODORS.
					AS ABOVE. WET. NO ODORS. NOT SAMPLED.
15.0					BORING TERMINATED AT 12 FEET. GROUNDWATER ENCOUNTERED AT 10 FEET.
20.0					



TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-4</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	--

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			2.61		2" GRAVEL, MEDIUM BROWN, MICACEOUS, SILTY MEDIUM-GRAINED SAND. DRY, NO ODORS.
			2.73		AS ABOVE. DRY. NO ODORS.
			2.39		AS ABOVE. DRY. NO ODORS.
10.0			3.03		MEDIUM TO LIGHT BROWN SILTY CLAY. DRY. NO ODORS.
			3.06		AS ABOVE. DRY. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
					AS ABOVE. WET. NO ODORS. NOT SAMPLED.
15.0					BORING TERMINATED AT 12 FEET. GROUNDWATER ENCOUNTERED AT 10 FEET.
20.0					



TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-5</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	--

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			3.39		2" GRAVEL, MEDIUM BROWN, MICACEOUS, SILTY MEDIUM-GRAINED SAND. DRY, NO ODORS.
			4.36		AS ABOVE. DRY. NO ODORS.
			3.71		LIGHT BROWN TO TAN SANDY CLAY. DRY. NO ODORS.
			3.99		AS ABOVE. DRY. NO ODORS.
10.0			4.44		MEDIUM TO DARK BROWN, VERY MICACEOUS, SILT. DRY. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
			3.82		AS ABOVE. WET AT 12 FEET. NO ODORS.
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>BILL YOUNG PROPERTY (PARCEL #87)</u> CLIENT <u>NCDOT R-2519B</u> PROJECT NUMBER <u>60241470</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>BY-6</u> PAGE <u>1</u> ELEVATION _____ DATE <u>2/22/12</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
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DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			2.75		2" GRAVEL, MEDIUM BROWN SILT/SAND WITH BLACK INCLUSIONS THROUGHOUT. DRY. NO ODORS. SUBMIT TO LABORATORY FOR ANALYSIS.
			2.82		
5.0					AS ABOVE. DRY. NO ODORS.
					AS ABOVE. WET AT 4.5 FEET. NOT SAMPLED.
					AS ABOVE. WET. NOT SAMPLED.
10.0					BORING TERMINATED AT 8 FEET. GROUNDWATER ENCOUNTERED AT 4.5 FEET.
15.0					
20.0					



ATTACHMENT B



PHOTO 1 - BORING ON NORTH SIDE OF BUILDING LOOKING SOUTH



PHOTO 2 - BORING ON NORTH SIDE OF BUILDING LOOKING SOUTH



PHOTO 3 - BORING WITHIN RIGHT-OF-WAY LOOKING EAST



PHOTO 4 - BORING WITHIN RIGHT-OF-WAY LOOKING WEST



PHOTO 5 - BORING ON SOUTH SIDE OF BUILDING LOOKING SOUTH



PHOTO 6 - BORING ON NORTHWEST CORNER OF BUILDING LOOKING SOUTH

ATTACHMENT C



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

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

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

March 05, 2012

Chemical Testing Engineer
NCDOT
Materials & Tests Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Project: Young 87 WBS#35609.1.1
Pace Project No.: 92112773

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

cc: Mr. Mike Branson, AECOM



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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(704)875-9092

CERTIFICATIONS

Project: Young 87 WBS#35609.1.1
Pace Project No.: 92112773

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213

Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Young 87 WBS#35609.1.1

Pace Project No.: 92112773

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92112773001	BY-1	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92112773002	BY-2	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92112773003	BY-3	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92112773004	BY-4	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92112773005	BY-5	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92112773006	BY-6	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	AW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1

Pace Project No.: 92112773

Sample: BY-1 **Lab ID: 92112773001** Collected: 02/22/12 14:30 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 3546				
Diesel Components	ND	mg/kg	0.087	1	02/24/12 11:50	02/26/12 19:21	68334-30-5	
Surrogates								
n-Pentacosane (S)	85 %		41-119	1	02/24/12 11:50	02/26/12 19:21	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B				
Gasoline Range Organics	ND	mg/kg	10	1	03/01/12 15:34	03/01/12 20:22	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87 %		70-167	1	03/01/12 15:34	03/01/12 20:22	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	43.4 %		0.10	1		02/24/12 14:49		



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Pace Analytical Services, Inc.
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 Huntersville, NC 28078
 (704)875-9092

ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

Sample: BY-2 **Lab ID: 92112773002** Collected: 02/22/12 15:00 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	8.7	1	02/24/12 11:50	02/26/12 19:21	68334-30-5	
Surrogates								
n-Pentacosane (S)	73	%	41-119	1	02/24/12 11:50	02/26/12 19:21	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	9.7	1	03/01/12 15:34	03/01/12 20:46	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-167	1	03/01/12 15:34	03/01/12 20:46	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	43.6	%	0.10	1		02/24/12 14:50		



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ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

Sample: BY-3 **Lab ID: 92112773003** Collected: 02/22/12 15:15 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	6.5	1	02/24/12 11:50	02/26/12 19:51	68334-30-5	
Surrogates								
n-Pentacosane (S)	93 %		41-119	1	02/24/12 11:50	02/26/12 19:51	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.0	1	03/01/12 15:34	03/01/12 21:10	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87 %		70-167	1	03/01/12 15:34	03/01/12 21:10	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.5 %		0.10	1		02/24/12 14:51		



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ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

Sample: BY-4 **Lab ID: 92112773004** Collected: 02/22/12 15:30 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 3546				
Diesel Components	ND	mg/kg	9.3	1	02/24/12 11:50	02/26/12 19:51	68334-30-5	
Surrogates								
n-Pentacosane (S)	75	%	41-119	1	02/24/12 11:50	02/26/12 19:51	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B				
Gasoline Range Organics	ND	mg/kg	9.4	1	03/01/12 15:34	03/01/12 21:35	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-167	1	03/01/12 15:34	03/01/12 21:35	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	46.4	%	0.10	1		02/24/12 14:51		



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ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

Sample: BY-5 **Lab ID: 92112773005** Collected: 02/22/12 16:00 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.7	1	02/24/12 11:50	02/26/12 20:20	68334-30-5	
Surrogates								
n-Pentacosane (S)	78	%	41-119	1	02/24/12 11:50	02/26/12 20:20	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.2	1	03/01/12 15:34	03/01/12 21:59	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-167	1	03/01/12 15:34	03/01/12 21:59	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	25.9	%	0.10	1		02/24/12 14:51		



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ANALYTICAL RESULTS

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

Sample: BY-6 **Lab ID: 92112773006** Collected: 02/22/12 16:10 Received: 02/23/12 11:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	7.4	1	02/24/12 11:50	02/26/12 20:20	68334-30-5	
Surrogates								
n-Pentacosane (S)	67 %		41-119	1	02/24/12 11:50	02/26/12 20:20	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	8.1	1	03/01/12 15:34	03/01/12 22:23	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87 %		70-167	1	03/01/12 15:34	03/01/12 22:23	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	32.5 %		0.10	1		02/24/12 14:52		



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QUALITY CONTROL DATA

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

QC Batch: GCV/5784 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92112773001, 92112773002, 92112773003, 92112773004, 92112773005, 92112773006

METHOD BLANK: 729634 Matrix: Solid
 Associated Lab Samples: 92112773001, 92112773002, 92112773003, 92112773004, 92112773005, 92112773006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.9	03/01/12 17:31	
4-Bromofluorobenzene (S)	%	86	70-167	03/01/12 17:31	

LABORATORY CONTROL SAMPLE: 729635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	24.8	24.9	101	70-165	
4-Bromofluorobenzene (S)	%			97	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729636 729637

Parameter	Units	92112772006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	25.8	25.8	32.3	28.6	121	107	47-187	12	
4-Bromofluorobenzene (S)	%						94	92	70-167		

QUALITY CONTROL DATA

Project: Young 87 WBS#35609.1.1
Pace Project No.: 92112773

QC Batch: OEXT/16542 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92112773001, 92112773002, 92112773003, 92112773004, 92112773005, 92112773006

METHOD BLANK: 727081 Matrix: Solid
Associated Lab Samples: 92112773001, 92112773002, 92112773003, 92112773004, 92112773005, 92112773006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	02/26/12 14:55	
n-Pentacosane (S)	%	85	41-119	02/26/12 14:55	

LABORATORY CONTROL SAMPLE: 727082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	47.1	71	49-113	
n-Pentacosane (S)	%			74	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 727083 727084

Parameter	Units	92112772003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	75.1	75.1	52.7	55.5	70	73	10-146	5	
n-Pentacosane (S)	%						83	80	41-119		



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QUALITY CONTROL DATA

Project: Young 87 WBS#35609.1.1
 Pace Project No.: 92112773

QC Batch: PMST/4519 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92112773001, 92112773002, 92112773003, 92112773004, 92112773005, 92112773006

SAMPLE DUPLICATE: 726840

Parameter	Units	92112773001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	43.4	42.4	2	

SAMPLE DUPLICATE: 726841

Parameter	Units	92112777007 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.6	15.3	8	



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QUALIFIERS

Project: Young 87 WBS#35609.1.1
Pace Project No.: 92112773

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Young 87 WBS#35609.1.1

Pace Project No.: 92112773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92112773001	BY-1	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773002	BY-2	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773003	BY-3	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773004	BY-4	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773005	BY-5	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773006	BY-6	EPA 3546	OEXT/16542	EPA 8015 Modified	GCSV/11450
92112773001	BY-1	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773002	BY-2	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773003	BY-3	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773004	BY-4	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773005	BY-5	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773006	BY-6	EPA 5035A/5030B	GCV/5784	EPA 8015 Modified	GCV/5785
92112773001	BY-1	ASTM D2974-87	PMST/4519		
92112773002	BY-2	ASTM D2974-87	PMST/4519		
92112773003	BY-3	ASTM D2974-87	PMST/4519		
92112773004	BY-4	ASTM D2974-87	PMST/4519		
92112773005	BY-5	ASTM D2974-87	PMST/4519		
92112773006	BY-6	ASTM D2974-87	PMST/4519		



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: _____ of _____
 1551770

Section A Required Client Information: Company: <u>AECOM</u> Address: <u>701 Corporate Center Dr</u> <u>Palestine NC 27607</u> Email To: <u>Mike.Branson@AECOM.com</u> <u>919 854 6238</u> Fax: <u>919 854 6259</u> Requested Due Date/AT: <u>June</u>		Section B Required Project Information: Report To: <u>Mike Branson</u> Copy To: <u>NC DOT</u> Purchase Order No.: <u>CRBS 35609.1.1</u> Project Name: <u>Young 87</u> Project Number: <u>602 41 470</u>		Section C Invoice Information: Attention: _____ Company Name: <u>NC DOT</u> Address: _____ Pace Quote Reference: <u>Bransford PO</u> Pace Project Manager: _____ Pace Profile #: _____	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		Site Location STATE: <u>NC</u>		Requested Analysis Filtered (Y/N) Y N	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	Collected		Sample Temp at Collection	# of Containers	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					Composite Start	Composite End/GRAB			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				
1	BY-1		SL	2/22/12 1430			4	2										-001
2	BY-2		SL	2/22/12 1500			4	2										-002
3	BY-3		SL	2/22/12 1515			4	2										-003
4	BY-4		SL	2/22/12 1530			4	2										-004
5	BY-5		SL	2/22/12 1600			4	2										-005
6	BY-6		SL	2/22/12 1640			4	2										-006
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS <u>Mike Bransford</u>		RELINQUISHED BY / AFFILIATION <u>Mike Bransford AECOM</u>		DATE <u>2-23-12</u>		TIME <u>11:55</u>		ACCEPTED BY / AFFILIATION <u>Mike Bransford AECOM</u>		DATE <u>2-23-12</u>		TIME <u>11:00</u>		SAMPLE CONDITIONS Temp in °C: <u>55</u> Received on Ice (Y/N): <u>X</u> Custody Sealed Cooler (Y/N): <u>2</u> Samples Intact (Y/N): <u>1/1</u>	
---	--	---	--	-------------------------------	--	-----------------------------	--	---	--	-------------------------------	--	-----------------------------	--	---	--

ORIGINAL

SAMPLER NAME AND SIGNATURE: Mike Bransford
 PRINT Name of SAMPLER: Mike Bransford
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 2/23/12

Temp in °C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
 F-ALL-Q-020/rev.07, 15-May-2007



Document Name: **Sample Condition Upon Receipt (SCUR)**
 Document No.: F-ASV-CS-003-rev.07

Document Revised: October 19, 2011
 Page 1 of 2
 Issuing Authorities:
 Pace Asheville Quality Office

Client Name: AECOM Project # 92112773

Where Received: Huntersville Asheville Eden
 Courier (Circle): Fed Ex UPS USPS Client Commercial Race Other
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional
 Proj. Due Date:
 Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other
 Circle Thermometer Used: IR Gun#2 -80344039 Type of Ice: Wet Blue None Samples on ice, cooling process has begun
 IR Gun Back Up- 111565135

Temp Correction Factor: Add (Subtract) 0.2 C
 Corrected Cooler Temp.: 5.8 C Biological Tissue is Frozen: Yes No N/A
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/23/12

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

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

SCURF Review: JP Date: 2/24/12 SRF Review: JP Date: 2/24/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR-Certification Office (i.e. out of home, incorrect preservation, out of temp, incorrect containers)