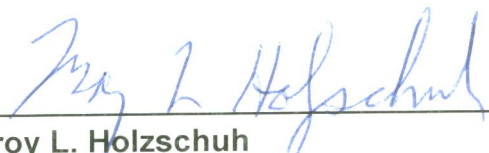





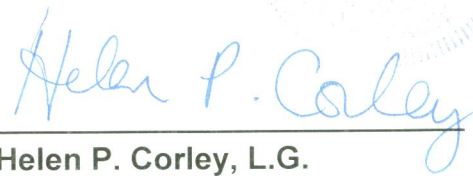
**NC Department of Transportation
Preliminary Site Assessment
State Project: R-3405
WBS Element: 35579.1.1**

**Grace Shumate Property
Parcel #86
February 22, 2011**

**AMEC Earth and Environmental, Inc. of North Carolina
AMEC Project: 562113405**



**Troy L. Holzschuh
Engineering Technician**



**Helen P. Corley, L.G.
Associate Hydrogeologist**



TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 Site Location and Vicinity.....	1
1.2 Site Description and History	2
2.0 GEOLOGY.....	2
2.1 Regional Geology.....	2
2.2 Site Geology	2
3.0 FIELD ACTIVITIES.....	3
3.1 Preliminary Activities.....	3
3.2 Site Reconnaissance	3
3.3 Geophysical Survey.....	3
3.4 Well Survey.....	4
3.5 Soil Sampling.....	4
4.0 SOIL SAMPLING RESULTS.....	4
5.0 CONCLUSIONS.....	5
6.0 RECOMMENDATIONS.....	6

TABLES

Table 1	Soil Sampling Analytical Results, DRO-GRO
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FIGURES

Figure 1	Vicinity Map
Figure 2	Site Map with Sample Locations
Figure 3	Site Map with Analytical Data

APPENDICES

Appendix A	Photo Log
Appendix B	Boring Logs
Appendix C	Geophysical Report
Appendix D	Laboratory Analytical Data

1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Request for Proposal, dated November 19, 2010, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for the Grace Shumate Property Parcel 86 (the Site) to be effected by a road improvement project along NC 18, Sparta Rd. The Site which is located at 1426 Sparta Rd is currently a residential property. The property is located on the northeast side of Sparta Road, near the intersection of Ruritan Park Road in North Wilkesboro of Wilkes County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated December 3, 2010.

NCDOT contracted AMEC to perform a PSA on the Grace Shumate Property due to the resemblance of the home's architectural style to that of a gas station. The PSA was performed to determine if underground storage tanks are present and if soils have been impacted by petroleum compounds as a result of past uses of the property within the proposed design project area. This parcel will be affected by construction activities associated with road widening along Sparta Rd.

The following report summarizes the site history, geophysical survey, location and capacities of any USTs, and describes our field investigation with results of chemical analyses. The report includes the evaluation of the analytical data with regards to the presence or absence of soil contamination within the NCDOT design area of parcel #86 and estimates the extent of soil contamination.

1.1 Site Location and Vicinity

The Grace Shumate Property parcel is located on the northeast side of Sparta Road, near the intersection of Ruritan Park Road in North Wilkesboro, Wilkes County, North Carolina, as shown in Figure 1. The properties to the north, southeast, south and northwest are residential with single family homes. The property to the southwest and across Sparta Rd is The Little Dipper restaurant.

1.2 Site Description and History

The Site is currently a residential property. The Site has a two story brick building with an attached covered porch, a detached garage and a storage building north of the main building. The building has a long canopy across the front and two locked bathrooms with outside doors. Two above ground storage tanks (AST) were observed adjacent to the western wall of the house – most likely containing propane and heating oil. These ASTs are outside of the proposed ROW. The proposed DOT project will parallel the southern property edge of Parcel #86 along Sparta Rd. No USTs were observed at this facility. Appendix A includes a photo log for Parcel #86.

AMEC studied the NCDENR UST Registered Tanks Database and no tanks are registered in association with this property. AMEC also reviewed the NCDENR Incident Management Database and did not find any incident numbers associated with this property.

2.0 GEOLOGY

2.1 Regional Geology

The Grace Shumate Property is located within the Alligator Back Formation of the Ocoee Supergroup located in the Blue Ridge Physiographic Province of western North Carolina. The Alligator Back Formation comprises metamorphic sedimentary rocks that are 750 million years in age. The rocks include mica schist and phyllite that are interlayered with minor biotite. The Alligator Back rocks were named for the large sections of gneiss that descend from the peak of Bluff Mountain that resemble an alligator.

2.2 Site Geology

Site geology was observed through the sampling of 4 shallow direct push probe soil borings (SB) onsite. Borings extended to a total depth of 10 feet below ground surface (bgs). Native soils generally consisted of orange, well sorted silt. Boring logs are presented in Appendix B.

Damp soil conditions were typically first encountered at a depth of 0.5 feet (ft) bgs.

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field sampling activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HSP) was modified to include the site-specific health and safety information. On January 17, 2011 a private utility locating company, Priority Underground Locating of Huntersville, North Carolina cleared the proposed drilling locations that were marked in the field by AMEC personnel. North Carolina-1-Call was contacted on January 19 to report the proposed drilling activities and subsequently notify all affected utilities for the parcel. Carolina Soil Investigations, LLC (CSI Drilling) of Olin, North Carolina was retained by AMEC to perform the direct push drilling and sampling. AMEC coordinated with Schnabel Engineering South (Schnabel) who performed one geophysical survey (electromagnetic) onsite during December. The geophysical results were reviewed and discussed at the completion of each survey. Prism Laboratories, Inc. was contacted for acquisition of sample bottles. Soil boring locations were focused just beyond the existing ROW. Boring locations were located to optimize the likelihood of intercepting any potential soil contamination by staggering sample locations along the front of the parcel.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on November 22, 2010. During reconnaissance, the area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the subsurface investigation and the number of boring locations was discussed. Boring locations were marked on January 17, 2011.

3.3 Geophysical Survey

Schnabel performed the geophysical surveys for the Sparta Rd corridor from December 10 to 21, 2010. Schnabel utilized a Geonics EM61-MK2 to perform the electromagnetic induction surveys. GPR data were not collected at the site due to a lack of differential EM61 evidence to suggest that unknown USTs were present. The EM61 was specifically calibrated to detect metal anomalies that are buried deeply and are characteristically large. The data collected by Schnabel indicates that no USTs are present within the proposed design area. The complete geophysical survey report can be found in Appendix C.

3.4 Well Survey

A well survey was not performed as part of this PSA and no monitoring wells were observed on the parcel.

3.5 Soil Sampling

Soil boring occurred on January 25, 2011 at Parcel #86. Four direct push soil borings were conducted on Parcel #86, which focused on the southern side of the site. Figure 2 presents the Site Map with boring locations and identifications. These samples were located to optimize the likelihood of intercepting any potential soil contamination by targeting the southern edge of the site which runs parallel to Sparta Rd. The first boring, P86-SB-1, was placed at the southeastern end of the site just inside the proposed ROW. Soil borings P86-SB-2 through P86-SB-4 were located within the proposed ROW, moving in a westerly direction. Boring location P86-SB-1 was the only boring location to exhibit a slightly elevated Photo Ionized Detector (PID) reading at an interval of 7-10 feet bgs. No other soil borings at Parcel # 86 exhibited elevated PID readings; therefore AMEC personnel concluded that adequate coverage of the site had been attained.

Soil samples were collected in accordance with EPA protocols in laboratory-supplied containers. The soil samples for Total Petroleum Hydrocarbons (TPH)–Gasoline Range Organics (GRO) analysis were collected using the 5030 prep method with methanol preservation. Samples for TPH-Diesel Range Organics (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 Prism Laboratories in Charlotte, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

4.0 SOIL SAMPLING RESULTS

AMEC conducted soil sampling at the Site on January 25, 2011. 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 methods accompanied by

field screening for organic vapors with a PID. The laboratory results with PID readings are tabulated in Table 1. Figure 3 shows the Site Map with analytical data

A minimum of one soil sample was collected from each of the four completed soil borings from Parcel #86. Typically, if impacted soil is identified, then additional soil samples are obtained. Soil borings did not produce substantially elevated PID readings; therefore additional soil samples were not warranted. Analyses of soil samples for DRO did show results higher than the NC Action Level of 10 mg/kg in one sample, P86-SB-1, with a result of 11 mg/kg. Sample results from the remaining soil borings were all below reporting limits. Analyses of soil samples for GRO were below reporting limits for all soil boring locations.

Since the field investigation and the Laboratory analytical report did not indicate significant contamination, an estimation of contamination was not warranted.

Copies of the original laboratory report and chain-of-custody documentation are included as Appendix D.

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 January 25, 2011.

- The Site is presently a residential property.
- The architectural design of the building suggests that it once operated as a gas station.
- Geophysical survey data indicate that no UST are present onsite.
- Four soil samples were collected and analyzed for TPH GRO and DRO.
- There was no field indication of impacted soil. Laboratory analyses of soil samples reported one DRO detection of 11 mg/kg, which is considered isolated based on the data. No GRO detections were reported.

6.0 RECOMMENDATIONS

The proposed NCDOT design at this time has minimal impact intended for Parcel 86. NCDOT should remain cautious of intercepting contaminated soil during road construction activities, thus AMEC recommends the following potential action:

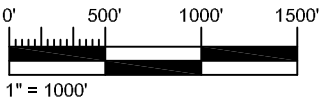
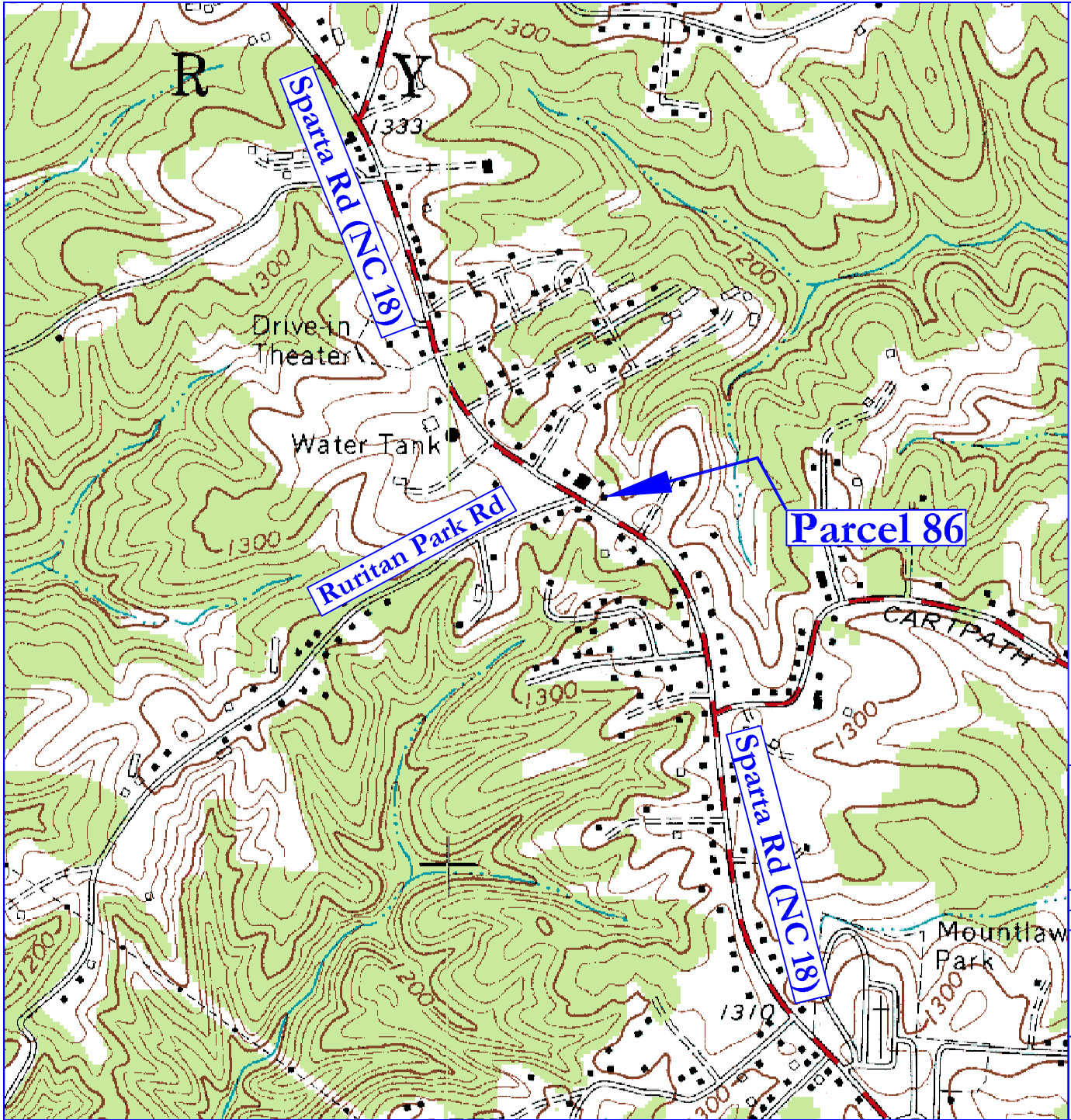
- Segregation with proper assessment and handling of potentially petroleum-impacted soil during roadway improvement construction operations.

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Parcel 86, Grace Shumate Property
NC DOT
North Wilkesboro, Wilkes County, North Carolina

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (ft bgs)	PID READINGS (ppm)	EPA Method 8015B	
				DRO (mg/kg)	GRO (mg/kg)
NC Action Levels				10	10
P86-SB-1	1/25/2011	8 - 10	1	11	<6.0
P86-SB-2	1/25/2011	2 - 4	0	<9.2	<5.0
P86-SB-3	1/25/2011	4 - 6	0	<8.4	<5.1
P86-SB-4	1/25/2011	2 - 4	0	<8.7	<4.9
NOTES: ft bgs = feet below ground surface; ppm = parts per million mg/kg = milligrams per kilogram Bold Concentrations Exceed Action Levels DRO = Diesel Range Organics GRO = Gasoline Range Organics Standards derived from the North Carolina UST Section Guidelines for Assessment and Corrective Action					

FIGURES



7.5 Minute Quadrangle
 North Carolina, 1983
 Photorevised 1993

VICINITY MAP

Parcel #86, Grace Shumate Property
 North Wilkesboro, Wilkes County, NC

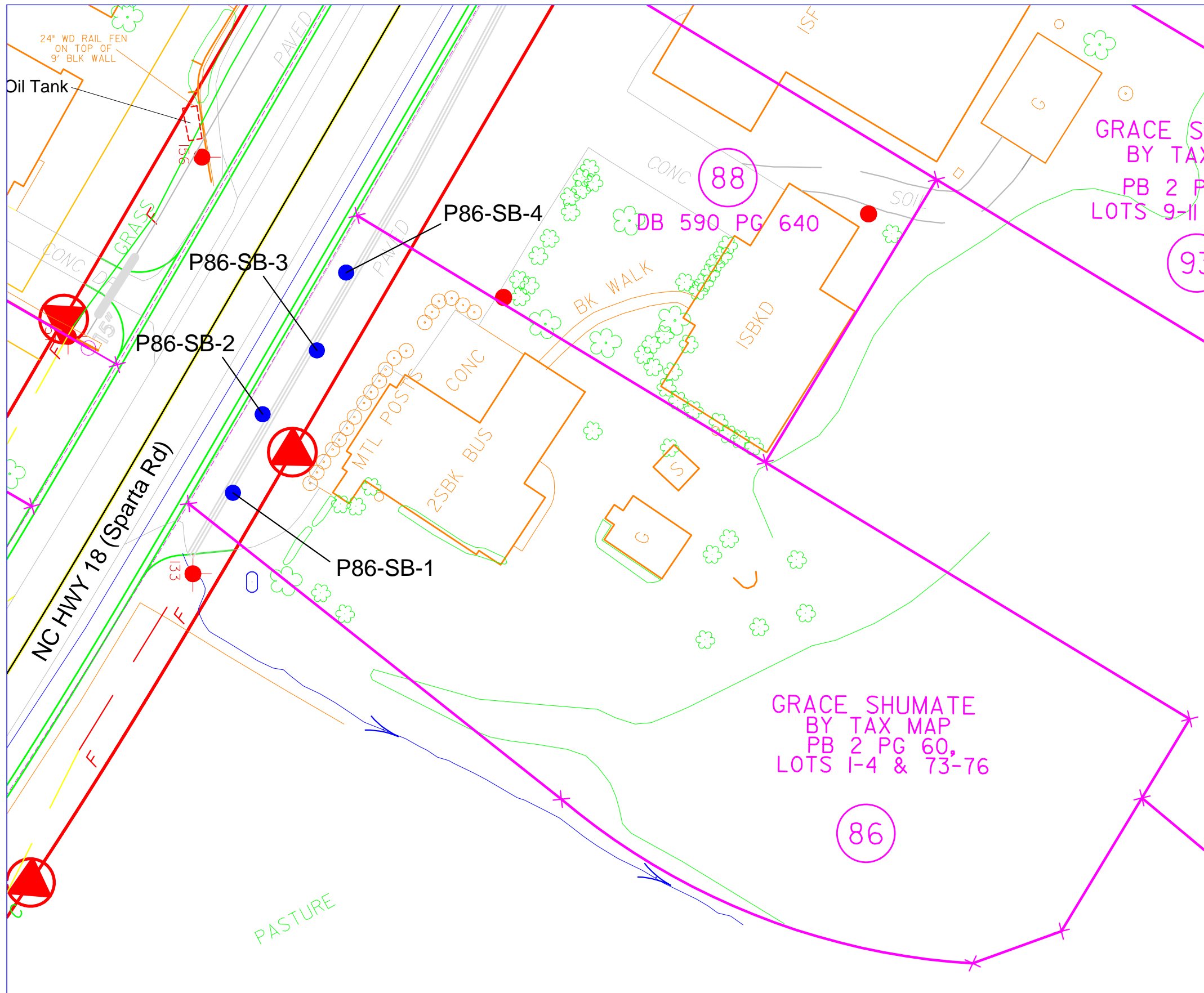
DRAWING NAME: J:\NCDOT\Wilkes\FIC1 DATE: 2 24 11

SCALE: 1 INCH = 1,000 FEET DR TLH CHK HPC REV









PREPARED FOR:
 NC Department Of Transportation
 Geotechnical Unit
 WBS Element: 35579.1.1
 TIP# R-3405

Prepared By:
 338 N Elm Ave
 Suite 112
 Greensboro, NC 27401
 (336) 691-5398

Figure:
 Figure 1



LEGEND

-  Proposed Right of Way
-  Existing Property Line
-  Existing Right of Way
-  Cut Line
-  Fill Line
-  Soil Boring Location January 2011
-  Utility Easement
-  Utility Pole

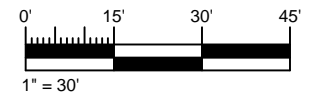
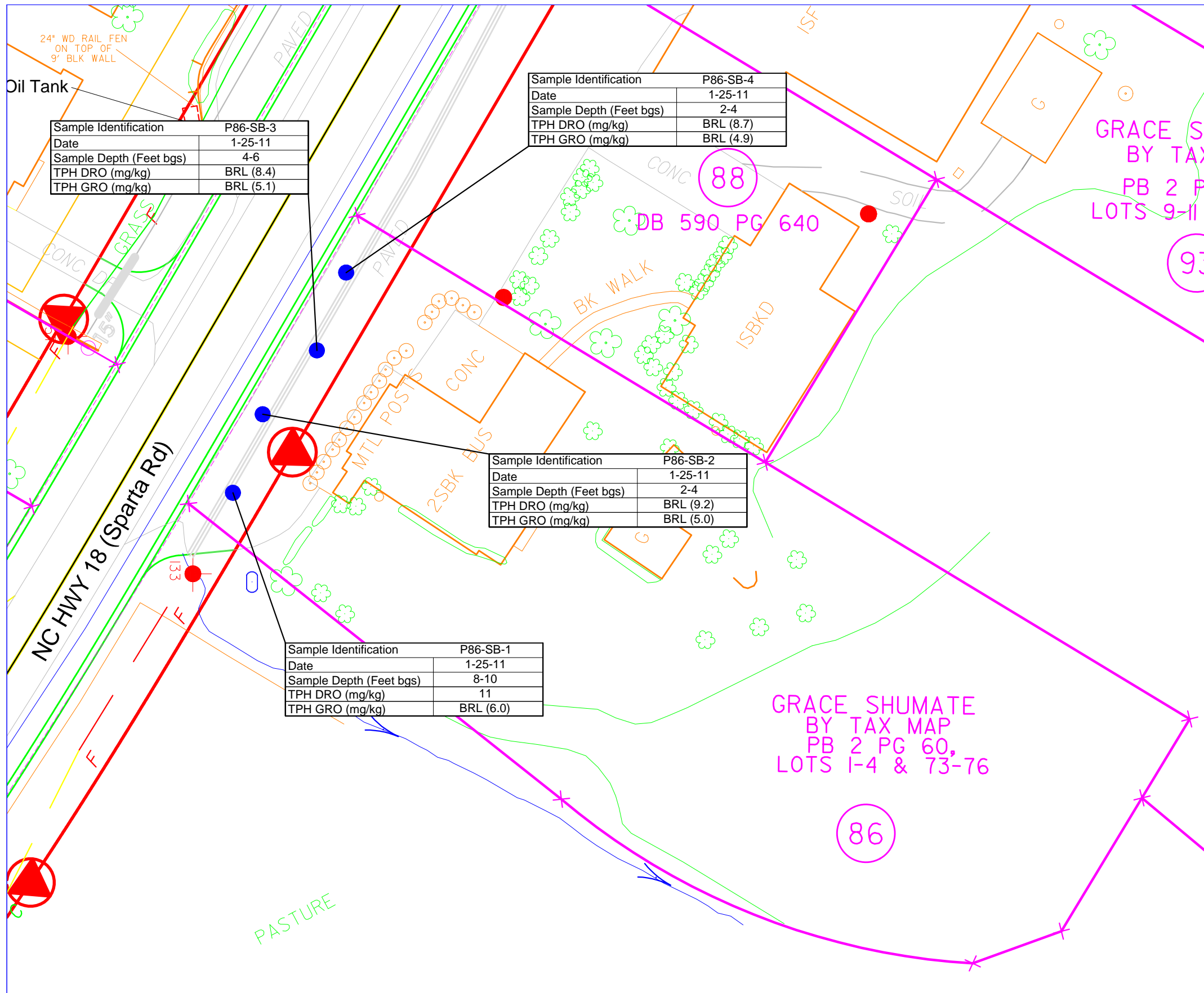


Figure 2
Parcel #86 Grace Shumate Property
Site Map

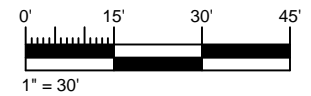
NC Department of Transportation
Geotechnical Unit
WBS Element: 35579.1.1
TIP# R-3405





LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- Cut Line
- Fill Line
- Soil Boring Location January 2011
- Probable UST
- Utility Easement



Sample Identification	P86-SB-3
Date	1-25-11
Sample Depth (Feet bgs)	4-6
TPH DRO (mg/kg)	BRL (8.4)
TPH GRO (mg/kg)	BRL (5.1)

Sample Identification	P86-SB-4
Date	1-25-11
Sample Depth (Feet bgs)	2-4
TPH DRO (mg/kg)	BRL (8.7)
TPH GRO (mg/kg)	BRL (4.9)

Sample Identification	P86-SB-2
Date	1-25-11
Sample Depth (Feet bgs)	2-4
TPH DRO (mg/kg)	BRL (9.2)
TPH GRO (mg/kg)	BRL (5.0)

Sample Identification	P86-SB-1
Date	1-25-11
Sample Depth (Feet bgs)	8-10
TPH DRO (mg/kg)	11
TPH GRO (mg/kg)	BRL (6.0)

Figure 3
Parcel #86 Grace Shumate Property
Site Map With Analytical Data

NC Department of Transportation
Geotechnical Unit
WBS Element: 35579.1.1
TIP# R-3405



APPENDIX A

PHOTO LOG



Photo 1

Viewing east from the across Sparta Road. Photo is of the site prior to drilling activities.



Photo 2

The photo shows track rig setting up to drill



338 North Elm Street, Suite 112
Greensboro, NC 27401

W.O. 562113405
PROCESSED TLH
DATE January 2011
PAGE

PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 86, Sparta Road, North Wilkesboro, NC

APPENDIX B
BORING LOGS



AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P86-SB1	Site Name: Parcel 86
Date: 1-25-11	Location: North Wilkesboro, Wilkes Co., NC
Job No.: 562113405	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: CSI	Driller Name/Cert #: Keith Speece - 2856-A

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1	0		Yellow, Well Sorted, Sand, Medium grained, Damp
1-4	0		Orange, Well Sorted, Clayey Silt, Damp
4-7	0		Orange/Yellow, Well Sorted, Silt, Damp
7-10	0.9		Yellow, Well Sorted, Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P86-SB3	Site Name: Parcel 86
Date: 1-25-11	Location: North Wilkesboro, Wilkes Co., NC
Job No.: 562113405	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: CSI	Driller Name/Cert #: Keith Speece - 2856-A

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-4	0		Orange, Well Sorted, Clayey Silt, Damp
4-6	0		Orange, Well Sorted, Silt, Damp
6-8	0		Yellow/Orange, Well Sorted, Silt, Damp
8-10	0		Yellow/Orange, Well Sorted, Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

APPENDIX C
GEOPHYSICAL SURVEY REPORT



January 28, 2011

Ms. Helen Corley, LG
AMEC Earth and Environmental of North Carolina, Inc.
101 W. Friendly Avenue, Suite 603
Greensboro, NC 27401

RE: State Project: R-3405
 WBS Element: 35579.1.1
 County: Wilkes
 Description: NC 18 from SR 1002 (Mountain View Road) to SR 1717 (Yellow Banks Road)

**Subject: Project 09210013.34 Report on Geophysical Surveys
 Parcel 86, Wilkes County, North Carolina**

Dear Ms. Corley:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes one 11x17 color figure and two 8.5x11 color figures.

INTRODUCTION

The work described in this report was conducted on December 8, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted over the accessible areas of the parcel as indicated by the NCDOT to support their environmental assessment of the subject property. Photographs of the parcel are included on Figure 1. The property is located on the north side of Sparta Road approximately 120 feet east of the intersection with Ruritan Park Road in North Wilkesboro, NC. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (USTs) in the accessible areas of the right-of-way and/or easement.

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 of selected EM61 anomalies, including areas of reinforced concrete, were conducted using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown on Figure 2.

FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (monitoring wells, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing.

DISCUSSION OF RESULTS

The EM61 unit used for data collection on this parcel had an intermittent short in the top coil, which made the differential data unreliable. The data collected from just the bottom coil were not affected by this problem. Only the early time gate data collected from the bottom coil were used to determine anomalous locations to survey with GPR.

The contoured early time gate EM61 data for Parcel 86 are shown on Figure 3. The early time gate data provide the more sensitive detection of metal objects. The early time gate results show anomalies apparently caused by reinforced concrete, buried utilities, or known site features (Figure 3). GPR data were not collected at the site due to a lack of differential EM61 anomalies that suggested the presence of unknown USTs. The geophysical data do not indicate the presence of metallic USTs within the areas surveyed.

CONCLUSIONS

Our evaluation of the geophysical data collected on the subject property on Project R-3405 in North Wilkesboro, NC indicates the following:

The geophysical data do not indicate the presence of metallic USTs in the areas surveyed on the subject property.

LIMITATIONS

These services have been performed and this report prepared for AMEC Earth and Environmental of North Carolina, Inc. and 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.

We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC



Jeremy S. Strohmeyer, LG
Project Manager



Edward D. Billington, LG
Senior Vice President

JW:JS:NB

Attachments: Figures (3)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.34 (R-3405, WILKES COUNTY)\REPORT\PARCEL 86\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 86 (R-3405).DOCX



Parcel 86 – Grace Shumate Property, looking southeast



Parcel 86 – Grace Shumate Property, looking southeast



STATE PROJECT R-3405
NC DEPT. OF TRANSPORTATION
WILKES CO., NORTH CAROLINA
PROJECT NO. 09210013.34

PARCEL 86
SITE PHOTOS

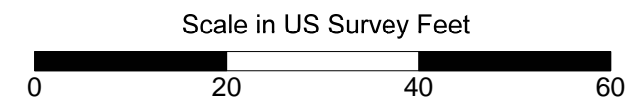
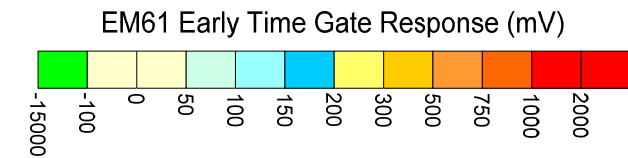
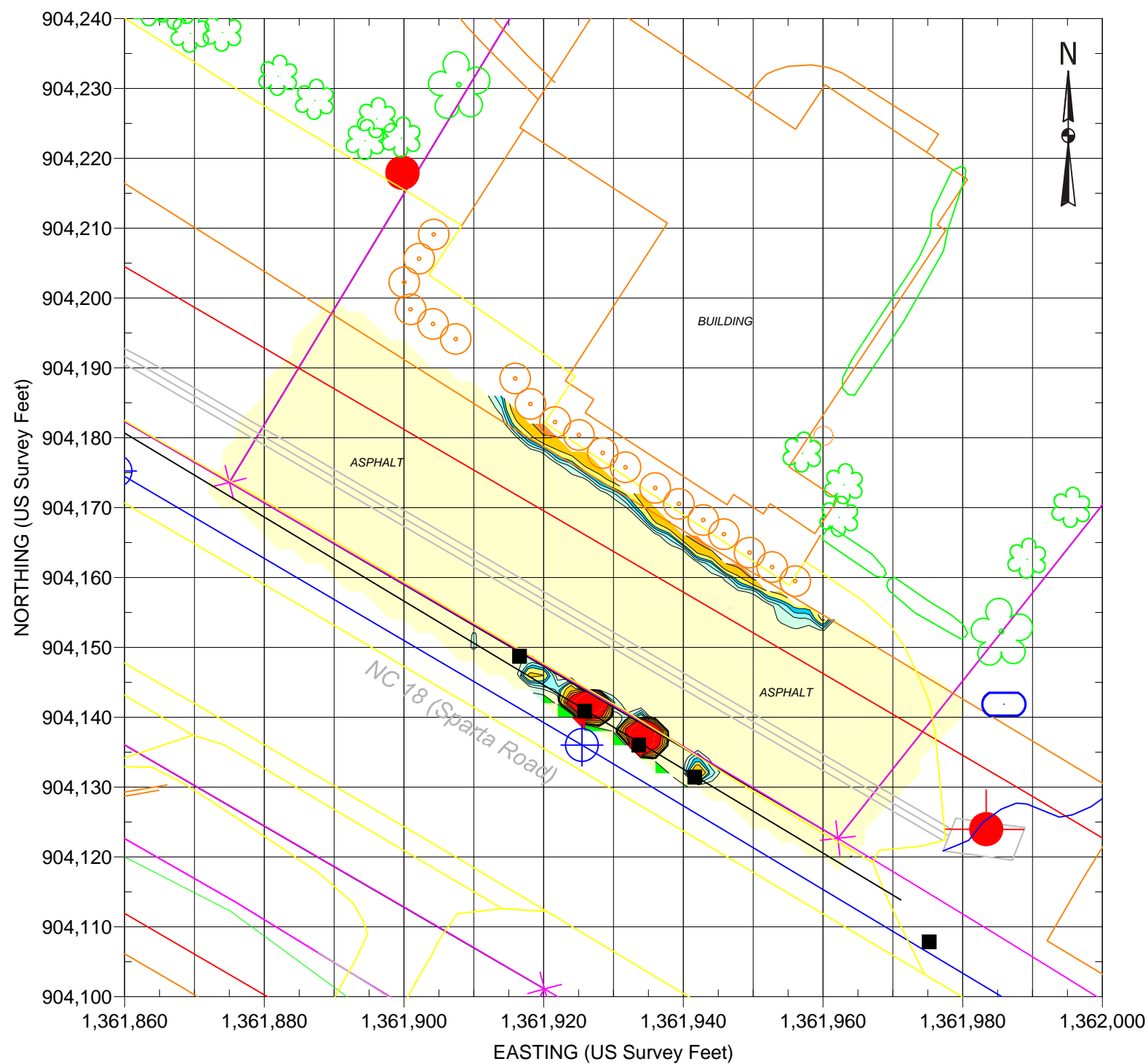
FIGURE 1



Geonics EM61-MK2



GSSI SIR-3000



EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	STORM SEWER INLET
	UST LID
	DOT PROPOSED R/W
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
	EXAMPLE GPR LINE LOCATION
	GPR SURVEY AREA
	LOCATION OF KNOWN OR SUSPECT USTS MARKED ON SITE

REF.: NCDOT FILE: r3405_ddc_psh08_060530.dgn
(FOR SOME SITE FEATURES)

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 December 8, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum.



STATE PROJECT R-3405
WILKES COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 09210013.34

PARCEL 86
EARLY TIME GATE
RESPONSE

APPENDIX D

LABORATORY ANALYTICAL RESULTS

AMEC Earth & Env. Inc.(DOT Gree)
Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County Parcel 86
Project No.: WBS #35579.1.1
Lab Submittal Date: 01/26/2011
Prism Work Order: 1010532

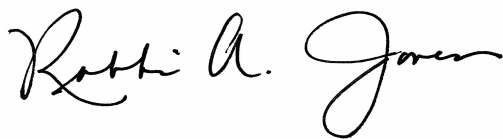
This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

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

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

Respectfully,

PRISM LABORATORIES, INC.



President/Project Manager



Reviewed By

Data Qualifiers Key Reference:

A Surrogate recovery above the control limits. GRO was not detected in the sample. No further action was taken.
BRL Below Reporting Limit
MDL Method Detection Limit
RPD Relative Percent Difference
* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P86-SB-1(8-10)	1010532-01	Solid	01/25/11	01/26/11
P86-SB-2(2-4)	1010532-02	Solid	01/25/11	01/26/11
P86-SB-3(4-6)	1010532-03	Solid	01/25/11	01/26/11
P86-SB-4(2-4)	1010532-04	Solid	01/25/11	01/26/11

Samples received in good condition at 2.7 degrees C unless otherwise noted.

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County
Parcel 86
Project No.: WBS #35579.1.1
Sample Matrix: Solid

Client Sample ID: P86-SB-1(8-10)
Prism Sample ID: 1010532-01
Prism Work Order: 1010532
Time Collected: 01/25/11 14:45
Time Submitted: 01/26/11 13:12

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	11	mg/kg dry	8.2	1.3	1	*8015C	1/28/11 19:25	JMV	P1A0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			103 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.0	0.78	50	*8015C	1/28/11 2:39	HPE	P1A0466
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			151 %		55-129	A
General Chemistry Parameters									
% Solids	85.0	% by Weight	0.100	0.100	1	*SM2540 G	2/1/11 15:30	JAB	P1B0014

AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Wilkes County
 Parcel 86
 Project No.: WBS #35579.1.1
 Sample Matrix: Solid

Client Sample ID: P86-SB-2(2-4)
 Prism Sample ID: 1010532-02
 Prism Work Order: 1010532
 Time Collected: 01/25/11 14:50
 Time Submitted: 01/26/11 13:12

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	1/28/11 20:00	JMV	P1A0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			99 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.0	0.65	50	*8015C	1/28/11 3:10	HPE	P1A0466
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			114 %		55-129	

General Chemistry Parameters

% Solids	76.3	% by Weight	0.100	0.100	1	*SM2540 G	2/1/11 15:30	JAB	P1B0014
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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Wilkes County
 Parcel 86
 Project No.: WBS #35579.1.1
 Sample Matrix: Solid

Client Sample ID: P86-SB-3(4-6)
 Prism Sample ID: 1010532-03
 Prism Work Order: 1010532
 Time Collected: 01/25/11 15:00
 Time Submitted: 01/26/11 13:12

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.4	1.4	1	*8015C	1/28/11 20:35	JMV	P1A0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			99 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.1	0.66	50	*8015C	1/28/11 3:41	HPE	P1A0466
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			156 %		55-129	A

General Chemistry Parameters

% Solids	82.5	% by Weight	0.100	0.100	1	*SM2540 G	2/1/11 15:30	JAB	P1B0014
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County
Parcel 86
Project No.: WBS #35579.1.1
Sample Matrix: Solid

Client Sample ID: P86-SB-4(2-4)
Prism Sample ID: 1010532-04
Prism Work Order: 1010532
Time Collected: 01/25/11 15:05
Time Submitted: 01/26/11 13:12

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.7	1.4	1	*8015C	1/28/11 21:11	JMV	P1A0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			95 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.9	0.64	50	*8015C	1/28/11 4:12	HPE	P1A0466
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			110 %		55-129	

General Chemistry Parameters

% Solids	80.1	% by Weight	0.100	0.100	1	*SM2540 G	2/1/11 15:30	JAB	P1B0014
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County Parcel
86
Project No: WBS #35579.1.1

Prism Work Order: 1010532
Time Submitted: 1/26/11 1:12:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A0466 - 5035										
Blank (P1A0466-BLK1)										
Prepared & Analyzed: 01/27/11										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.40		mg/kg wet	5.00		108	55-129			
LCS (P1A0466-BS1)										
Prepared & Analyzed: 01/27/11										
Gasoline Range Organics	42.3	5.0	mg/kg wet	50.0		85	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.35		mg/kg wet	5.00		107	55-129			
LCS Dup (P1A0466-BSD1)										
Prepared & Analyzed: 01/27/11										
Gasoline Range Organics	42.9	5.0	mg/kg wet	50.0		86	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	5.25		mg/kg wet	5.00		105	55-129			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County Parcel
86
Project No: WBS #35579.1.1

Prism Work Order: 1010532
Time Submitted: 1/26/11 1:12:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A0489 - 3545A										
Blank (P1A0489-BLK1)										
					Prepared: 01/27/11 Analyzed: 01/28/11					
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.31		mg/kg wet	1.60		82	49-124			
LCS (P1A0489-BS1)										
					Prepared: 01/27/11 Analyzed: 01/28/11					
Diesel Range Organics	57.3	7.0	mg/kg wet	79.7		72	55-109			
Surrogate: <i>o</i> -Terphenyl	1.39		mg/kg wet	1.59		87	49-124			
LCS Dup (P1A0489-BSD1)										
					Prepared: 01/27/11 Analyzed: 01/28/11					
Diesel Range Organics	59.3	7.0	mg/kg wet	79.8		74	55-109	3	200	
Surrogate: <i>o</i> -Terphenyl	1.43		mg/kg wet	1.60		89	49-124			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Wilkes County Parcel
86
Project No: WBS #35579.1.1

Prism Work Order: 1010532
Time Submitted: 1/26/11 1:12:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1B0014 - NO PREP

Blank (P1B0014-BLK1) Prepared & Analyzed: 02/01/11

% Solids	100	0.100	% by Weight							
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Duplicate (P1B0014-DUP1) Source: 1010532-04 Prepared & Analyzed: 02/01/11

% Solids	79.9	0.100	% by Weight		80.1			0.2	20	
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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
1010532-01	P1A0489	25.15 g	1 mL	01/27/11
1010532-02	P1A0489	25.02 g	1 mL	01/27/11
1010532-03	P1A0489	25.16 g	1 mL	01/27/11
1010532-04	P1A0489	25.18 g	1 mL	01/27/11

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
1010532-01	P1A0466	4.93 g	5 mL	01/27/11
1010532-02	P1A0466	6.52 g	5 mL	01/27/11
1010532-03	P1A0466	5.96 g	5 mL	01/27/11
1010532-04	P1A0466	6.36 g	5 mL	01/27/11

NO PREP

Lab Number	Batch	Initial	Final	Date
1010532-01	P1B0014	30 g	30 mL	02/01/11
1010532-02	P1B0014	30 g	30 mL	02/01/11
1010532-03	P1B0014	30 g	30 mL	02/01/11
1010532-04	P1B0014	30 g	30 mL	02/01/11



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: AMEL EYE

Report To/Contact Name: Helen Corley

Reporting Address: 338 N Elm Greensboro NC 27401

Phone: 336-691-5398 Fax (Yes) (No):

Email (Yes) (No) Email Address: helen.corley@amele.com

EDD Type: PDF Excel Other

Site Location Name: Parcel 86

Site Location Physical Address: N Wilkesboro

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: WBS: 35579.1.1

Project Name: Wilkes County

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

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

Invoice To: Helen Corley

Address: Same

Purchase Order No./Billing Reference WBS: 35579.1.1

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

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

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

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

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

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>2.7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

SC OTHER N/A

Water Chlorinated: YES NO

Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE		DRD	609/503					
P86-SB-1 (8-10)	1-25-11	1445	Soil	G VOA	4	2 G 2 VOA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					01
P86-SB-2 (2-4)	↓	1450	↓	↓	↓	↓		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					02
P86-SB-3 (4-6)	↓	1500	↓	↓	↓	↓		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					03
P-86-SB-4 (2-4)	↓	1505	↓	↓	↓	↓		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					04

Sampler's Signature: Troy L Holzschuh Sampled By (Print Name): Troy L Holzschuh Affiliation: AMEL

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>Troy L Holzschuh</u>	Received By: (Signature)	Date <u>1-26-11</u>	Military/Hours <u>1312</u>
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: <u>[Signature]</u>	Date <u>1/26/11</u>	Military/Hours <u>1312</u>
Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand-delivered <input type="checkbox"/> Prism Field Service <input type="checkbox"/> Other			QC Group No. <u>1070532</u>

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC	UST: <input checked="" type="checkbox"/> NC <input type="checkbox"/> SC	GROUNDWATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC	RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC	CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC	LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC	OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC
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*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS
Page 10 of 10
ORIGINAL