PSA REPORT

PRELIMINARY SITE ASSESSMENT PARCEL #10 EAC INVESTMENTS, LLC AND WILCOHESS, LLC PROPERTY 1602 2ND ST EXTENSION WILKESBORO, WILKES COUNTY, NC STATE PROJECT R-2603 WBS ELEMENT 36001.1.2

Prepared for

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July 31, 2013



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URS Job No. 3182 8761

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Certification

This Report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my thorough inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.



Walter Plekan, L.G. Project Manager URS Corporation – North Carolina 2061

NC License No.

7-13-2013

Date

SECTIONONE Introduction

1.1 INTRODUCTION

This report documents a Preliminary Site Assessment (PSA) conducted by URS Corporation – North Carolina (URS) on behalf of the North Carolina Department of Transportation (NCDOT). The assessment area includes a site located on the north side of the intersection of NC Highway 18 and 268, on the easternmost portion of the parcel. This PSA was conducted at 1602 2nd St Extension Wilkesboro, Wilkes County, North Carolina (**Figure 1**), owned by EAC Investments (the Site). The PSA was performed only within the proposed right-of-way and/or easement for this parcel.

This PSA was performed in general accordance with:

- NCDOT's 22 March 2013 Request for Technical and Cost Proposal (RFP) for the Site property. The RFP established the following scope of work (SOW) for the project:
 - Locate USTs and estimate approximate size and contents (if any).
 - Evaluate whether contaminated soils are present with emphasis along planned drainage lines and ditches.
 - If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a site map.
 - Prepare a report including field activities, findings, and recommendations for each site and submit to this office in triplicate and one electronic copy.
- URS's 3 April 2013 Technical and Cost Proposal for the Site property.
- NCDOT's 25 April 2013 Notice to Proceed for the Site property.

The scope of work included a geophysical survey, soil sampling using a direct push technology (DPT) rig, and laboratory analyses (Total Petroleum Hydrocarbons or TPH) of selected soil samples from within the Site property. The geophysical survey was first conducted by URS in order to identify potential UST and/or anomaly locations within the Site property. Based on the results of the geophysical survey and anecdotal evidence, boring locations were identified and the DPT borings were completed by a drilling subcontractor (Geologic Exploration of Statesville, North Carolina) under the supervision of a URS geologist. Soil borings were located in areas that were cleared of underground utilities by NC One-Call. Analysis of soil samples were performed by Pace Analytical Services under direct contract with NCDOT.

1.2 BACKGROUND

The objective for this PSA is to assess the Site for USTs, impacted soil, and to delineate potential impacts found in soils. The major Site features and the surrounding area are shown on **Figures 1** and **2**. The parcel is bounded by Elkin Highway to the east, 2nd street to the south and west, and a wooded portion of a commercial property to the north. The property currently serves as a retail gasoline station and convenience store.

SECTIONONE Introduction

Several sources were reviewed for historical information including Wilkes County GIS, Sanborn Maps and NCDENR files. No aerials were located, NCDENR's UST Registration Database provided Facility ID 0-005844, and no groundwater incidents were associated with the property.

2.1 GEOPHYSICAL SURVEY

The primary objective of the geophysical survey was to locate potential USTs or anomalies within the property, and a secondary objective was to identify the general locations of underground utilities at the property in advance of the planned subsurface investigation. The geophysical survey for the property was conducted by URS between May 6 and 8, 2013. Ground surface conditions consisted primarily of concrete or asphalt with some grassy areas.

The geophysical investigation was conducted using the electromagnetic (EM) method augmented by ground-penetrating radar (GPR). The EM survey was completed using the hand-held Schonstedt GA-52Cx Magnetic Locator and the Geonics, Ltd. EM-61 MKII (EM-61). The GPR survey was completed using a Sensors & Software, Inc. Noggin PLUS Smart Cart System with a 250 MHz scanning antenna.

EM-61 data were collected along parallel profiles with a nominal spacing of 5 feet where accessible. EM-61 data were recorded at a rate of 8 readings per second, which equates to an along-profile data point spacing of less than 1 foot. URS utilized the Schonstedt GA-52Cx to conduct a search of the portions of the survey area not accessible due to the size of the EM-61 instrument in order to identify anomalies indicative of USTs (i.e. between trees, man-made obstructions, etc.).

A Trimble ProXRT global positioning system (GPS) was used to record positional data coincident with the EM-61 data. The ProXRT system provided real-time differential corrections via an Omnistar subscription service. The horizontal accuracy of the differential GPS (DGPS) data is generally 3 feet or better. URS also used the GPS system to record the locations of relevant site features within the survey area.

Prior to conducting the GPR investigation, URS performed in-field analysis of the EM-61 data to identify anomalies indicative of potential USTs. Preliminary interpretations were based on an evaluation of the magnitude of the EM response as well as the dimensions of the anomaly in plan view.

The GPR was used to conduct a broad search of the parcel in areas where metal detection methods proved unreliable due to metallic interference, or where further investigation of EM anomalies were determined necessary. GPR surveying consisted of in-field analysis of real-time data. As a result, no post-processing of the GPR data was completed. However, GPR anomalies that appeared to be indicative of USTs were saved to a data file. The objective of augmenting the EM-61 survey with follow-up GPR surveying was to further characterize EM-61 anomalies that could not be readily attributed to existing site features.

The EM-61 data were pre-processed using the program DAT61 MK2 (Geonics Ltd). The program was used to prepare the data for contouring in Surfer (Golden Software, Inc.). Contoured data represent EM-61 Channel 1 and differential responses. The Channel 1 response represents data recorded at the earliest time interval along the EM-61 response decay curve. These data are applicable to detection of subsurface objects including USTs and other underground obstructions (e.g. utility lines).

2.2 SOIL BORING INSTALLATION AND MEDIA SAMPLING

Seven direct-push soil borings, P10-SB1 through P10-SB7, were installed on May 28, 2013 to assess the Site for impacted soil as shown on **Figure 2**. Soil samples were collected and logged continuously at each soil boring location. Soil sample aliquots were field screened for organic vapors with a MiniRae[®] brand photo-ionization detection (PID) instrument calibrated daily with 100 parts per million (ppm) isobutylene.

Soil samples from select intervals were collected from each boring during the soil investigations for laboratory analysis. The samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8015B.

2.3 QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

While in the field, pertinent observations were recorded in a logbook maintained by the URS field representative. This included pertinent field data collection activities and other observations as appropriate. Each sample collected for laboratory analysis was assigned a unique sample identification number and placed in laboratory supplied containers appropriate for the parameters being analyzed. Samples collected for laboratory analyses were stored on ice in insulated coolers immediately following collection. Information on the custody, transfer, handling, and shipping of all samples was recorded on a chain-of-custody form that accompanied the samples to the laboratory.

Soil analytical data were evaluated based on the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999). Sample results have been qualified based on the results of the data review process and are considered representative and valid for the purpose of this report.

3.1 GEOPHYSICAL SURVEY RESULTS

The results of the geophysical survey are presented in accordance with the NCDOT guidelines, dated May 19, 2009, for identifying and ranking potential USTs on NCDOT projects.

The EM-61 Channel 1 and differential response results are provided as plan view, color-enhanced contour maps in **Figures 3** and **4**, respectively. The results presented in **Figures 3** and **4** are superimposed on the parcel base drawing provided by NCDOT. The interpreted background response is represented by the light blue to light green contours and corresponds to the range of -5 to 20 milliVolts (mV).

The Channel 1 results in **Figure 3** indicate high response anomalies, red in color, where known surface or near-surface features exist. Features of note include utilities, a reinforced concrete slab, a parked vehicle, and an unknown anomaly.

In addition, Channel 1 results in **Figure 3** indicate a slight increase in negative response values across the surveyed area. This slight increase in negative response values is indicated in **Figure 3** by the yellow contours. Because the ground surface consists of asphalt across this portion of the site, the localized increase in negative response values suggests a slightly elevated background metallic signature of the materials beneath the asphalt. These near-surface conditions may include sub-base or fill materials with a relatively higher metallic mineral content. The effects of these conditions appear to be more prevalent in the Channel 1 data (**Figure 3**) compared to the differential response data (**Figure 4**).

The effects of surface and near-surface conditions appear to be muted in the differential response data, thus facilitating the identification of deeper anomalies characteristic of USTs. Because the differential response data in **Figure 4** depict more well-defined footprints of EM signatures and enable muting of surface effects, these response data were utilized to select the target locations for inclusion in the follow-up GPR survey. One anomaly indicative of a potential UST is identified in **Figures 3** and **4** by the orange-shaded rectangle. The anomaly is characterized in the EM-61 data by dimensions and response amplitude consistent with the characteristics of a UST. The footprint of the interpreted peak EM-61 signature is approximately 8 feet by 12 feet, and the response magnitude appears to be greater than background condition, approximately 300 mV.

The results of the follow-up GPR survey across the anomaly identified in the EM-61 data indicated reflections consistent with the characteristic of a UST. Therefore, this anomaly is considered a "Possible UST" in accordance with the NCDOT guidelines for identifying and ranking potential USTs. The footprint of the anomaly measures approximately 8 feet by 12 feet, with the long axis oriented parallel to the road. The footprint of this EM-61 anomaly is depicted in **Figures 3** and **4** by the orange-shaded rectangle. A representative GPR cross section across the possible UST is included in **Figure 4**.

The results of the sweep search with the Schonstedt in areas inaccessible by the EM-61 and GPR within the landscaped portions of the survey area did not identify anomalies indicative of buried metallic obstructions.

Results

3.2 SOIL SAMPLING RESULTS

A total of seven soil borings were advanced to depths of 10 feet below ground surface (ft bgs) during the PSA investigation at the Site property. Boring locations are shown in **Figure 2** and analytical results (TPH) are summarized in **Table 1**. The soil was described as light brown silty sand. The boring logs are included as **Appendix A** and the complete laboratory report is included in **Appendix B**.

As shown in **Appendix A**, soil headspace screening in the field did not detect organic vapors above approximately 1.5 parts per million (ppm). TPH (GRO) was not detected in any of the soil samples collected for laboratory analysis. TPH (DRO) was detected in soil sample P10-SB1 at 6.8 milligrams per kilogram (mg/kg). This concentration does not exceed the NCDENR Non-UST Petroleum Action Level of 10 mg/kg. TPH (DRO) was not detected in any other soil samples collected from the Site.

3.3 SUMMARY

The following summarizes the findings of NCDOT Parcel 10, located at 1602 2nd Street Extension:

- Historical files for aerials and environmental were not located;
- The geophysical survey detected the presence of a metallic anomaly near the southern corner of the parcel along the proposed easement. The location of the "possible" UST is depicted in **Figures 2** through **4**;
- Field screening did not detected the presence of organic vapors above background concentrations in soil boring at the site; and
- Soil sample SB1-10 reported a concentration below the regulatory standards for TPH (DRO).

Depending on the depth of construction activities in this area, future site workers have the potential to encounter impacted soil due to the depth of identified impacts (approx. 5 ft bls). Impacted soil should be properly handled and disposed of in accordance with NCDENR regulations.

SECTIONFOUR Limitations

Opinions relating to environmental, geologic, and geotechnical conditions at this parcel are based on limited data, and actual conditions may vary from those encountered at the times and locations where the data was obtained, despite the use of due professional care. The geophysical investigation was conducted in accordance with reasonable and accepted engineering geophysics practices, and the interpretations and conclusions are rendered in a manner consistent with other consultants in our profession. All geophysical techniques have some level of uncertainty and limitations. No other representations of the reported information is expressed or implied, and no warranty or guarantee is included or intended. The results of the geophysical survey are presented in accordance with the NCDOT guidelines, dated May 19, 2009, for identifying and ranking potential USTs on NCDOT projects.

SECTIONFIVE References

North Carolina Department of Transportation, Request for Technical and Cost Proposal, Preliminary Site Assessment, R-2603, March 22, 2013.

- North Carolina Department of Transportation, Notice to Proceed Preliminary Site Assessment, R-2603, April 25, 2013.
- URS Corporation, Technical and Cost Proposal, Preliminary Site Assessment, R-2603, April 23, 2013.
- United States Environmental Protection Agency, Contract Laboratory Program National Functional Guidelines for Organic Data Review, 1999.

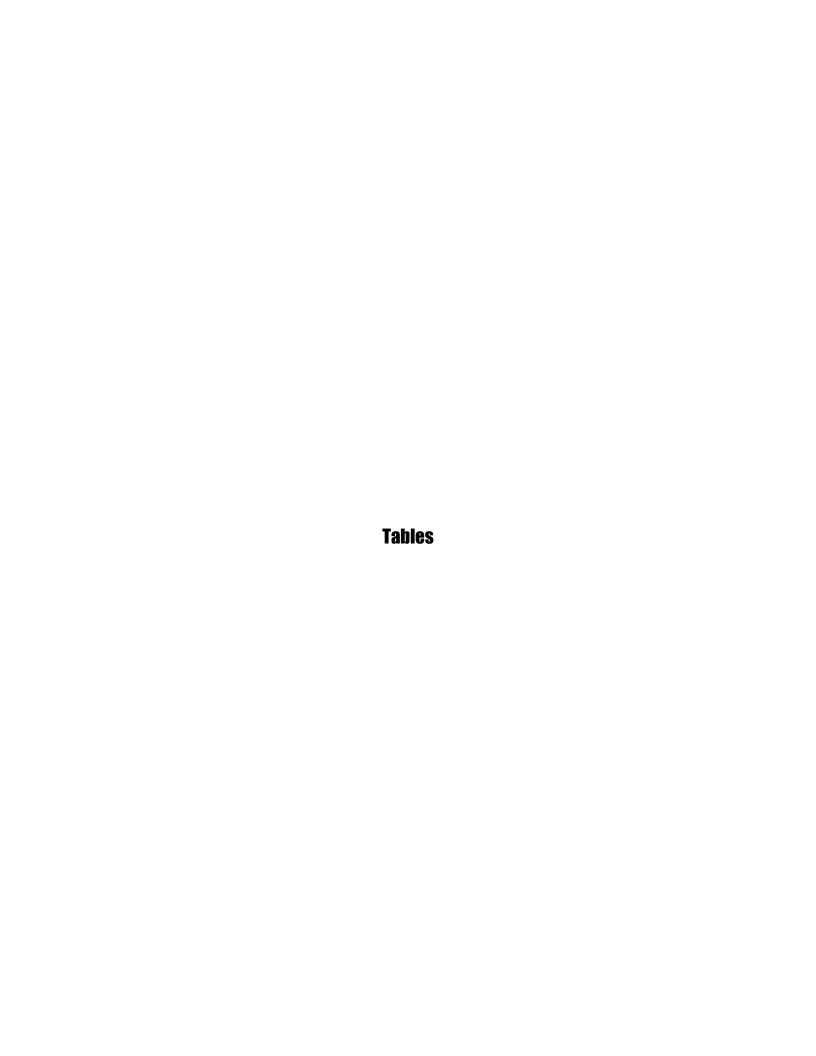


Table 1 Parcel 10 - EAC Investments, LLC Summary of Soil TPH Analytical Results TIP #R-2603 36001.1.2

Analytical	Method		EPA 8015 Modified by EPA 3546	EPA 8015 Modified by EPA 5035A/5030B
Sample ID	Constituent o	of Concern	TPH - Diesel Range Organics (DRO)	TPH - Gasoline Range Organics (GRO)
	Date Collected (mm/dd/yy)	Sample Depth (ft. BGS)	mg/kg	mg/kg
P10-SB1-10	05/28/2013	10	6.8	ND
P10-SB2-10	05/28/2013	10	ND	ND
P10-SB3-10	05/28/2013	10	ND	ND
P10-SB4-10	05/28/2013	10	ND	ND
P10-SB5-10	05/28/2013	10	ND	ND
P10-SB6-10	05/28/2013	10	ND	ND
P10-SB7-10	05/28/2013 10		ND	ND
NCDENR UST Sec	tion Action Leve	el	10	10
NCDENR Non-UST Pe	troleum Action	Level	10	10

NOTES:

ND = Not Detected

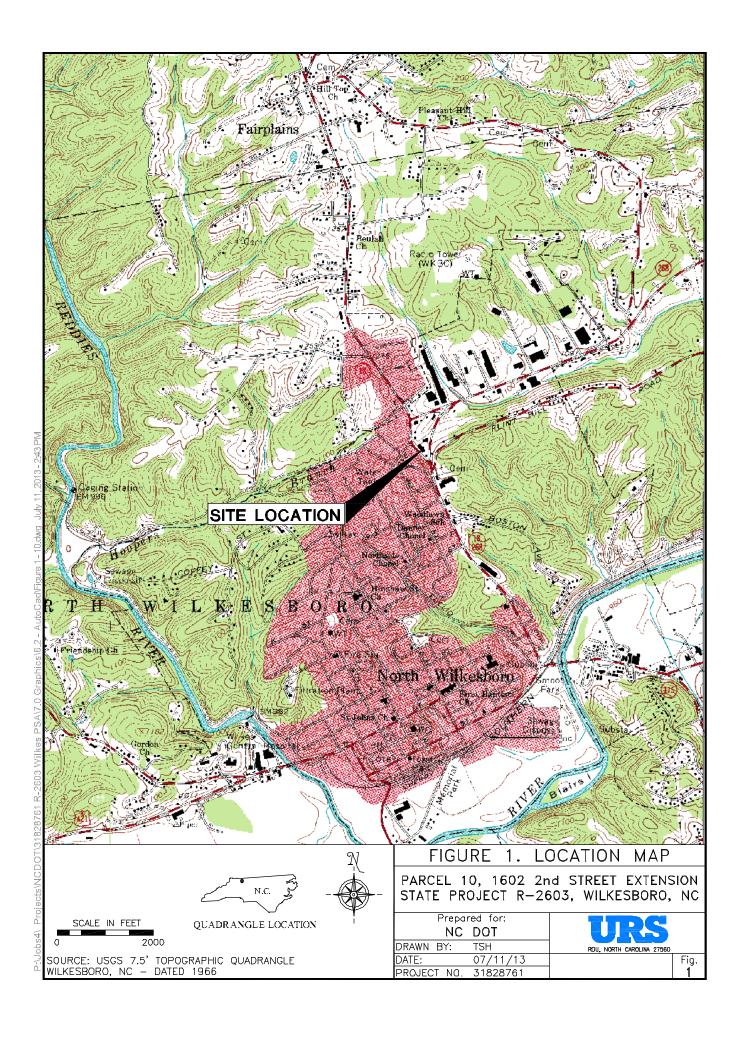
TPH = Total Petroleum Hydrocarbons

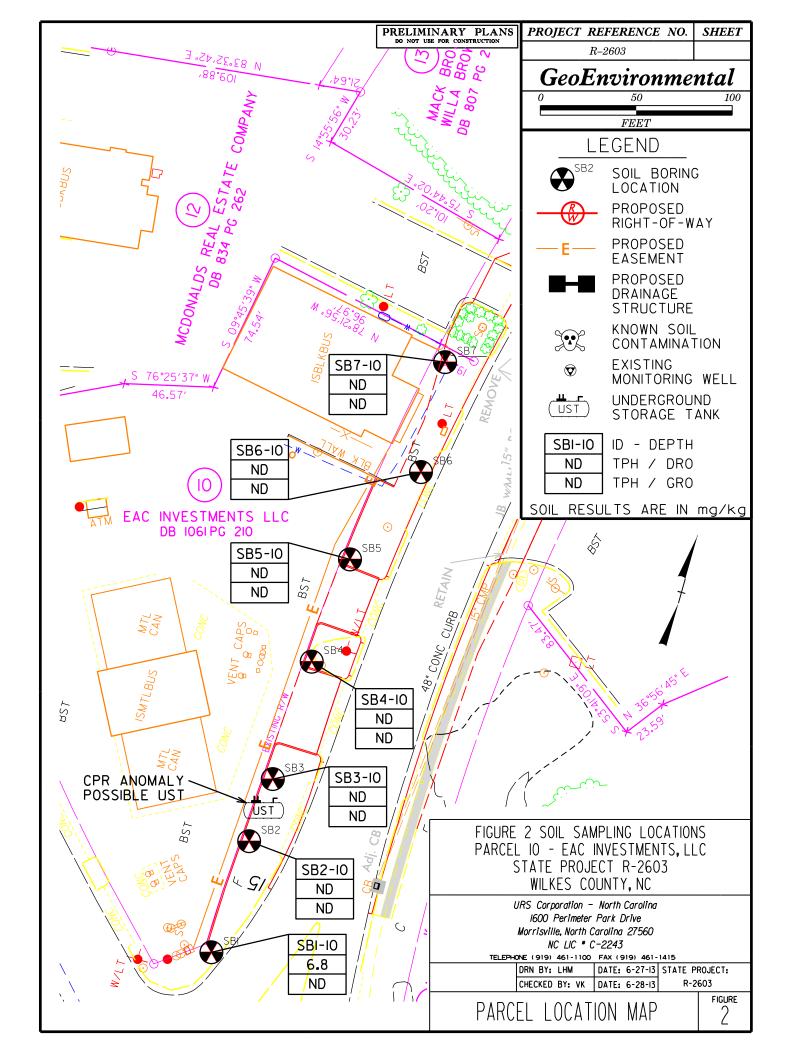
ft. BGS = feet below ground surface

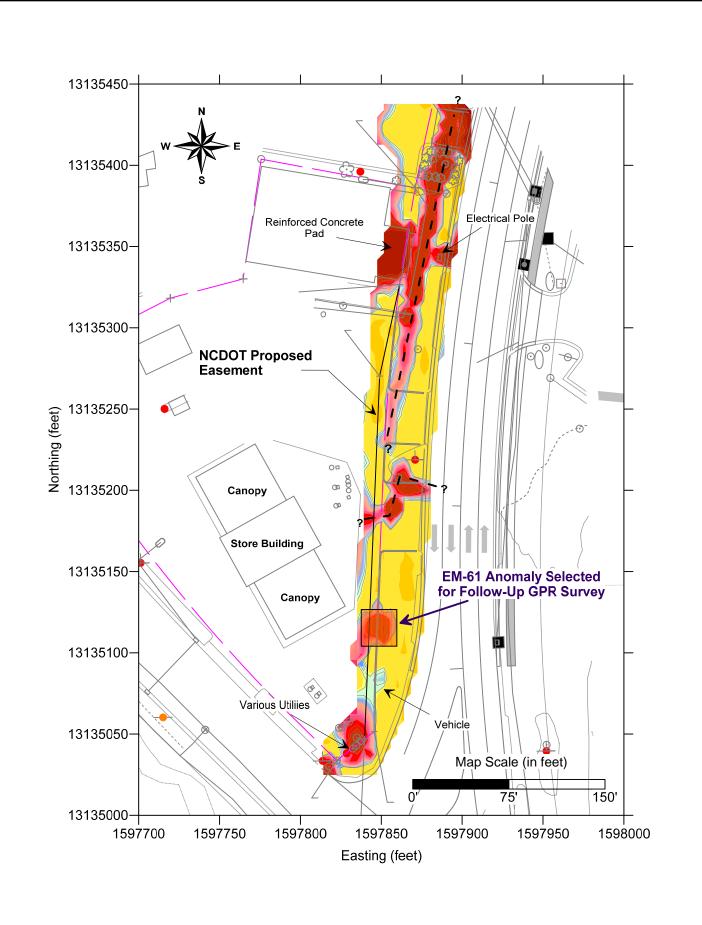
mg/kg = milligrams per kilogram

Bold data above the NCDENR Action Levels

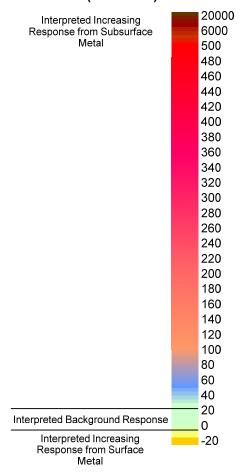








EM-61 MKII Channel 1 Response (milliVolts)

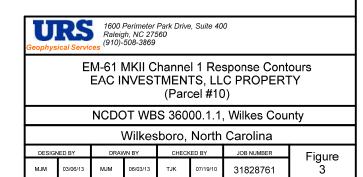


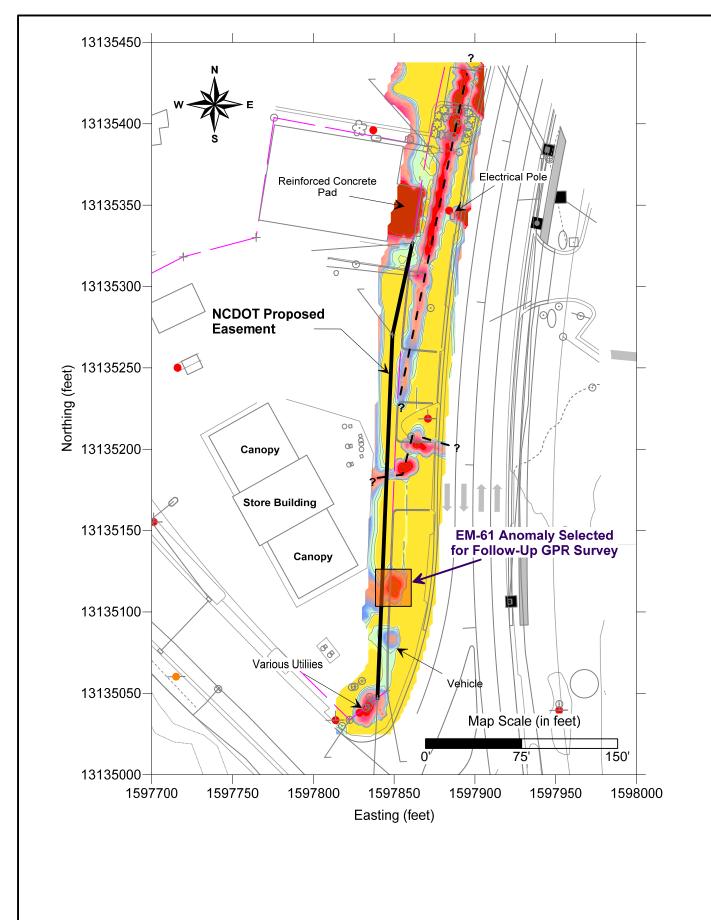
Notes:

- 1. Coordinates in NC State Plane NAD 83 grid.
- 2. Data from Geonics, Ltd. EM-61 MKII instrument.
- 3. Base drawing after file "r2603_parcel_010.dxf" provided by NCDOT.
- 4. Location control from DGPS survey by URS.

<u>Legend</u>

- – Interpreted Subsurface Utility Center Line
- ? Utility Termination Point not Known
- Property Boundary



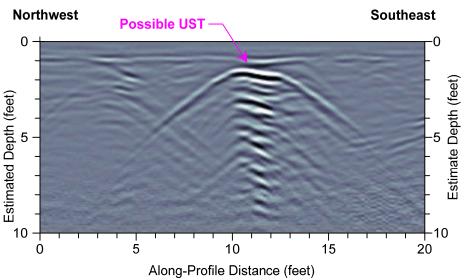


<u>Legend</u>

- – Interpreted Subsurface Utility Center Line
- ? Utility Termination Point not Known
- Property Boundary
- Possible UST

Notes:

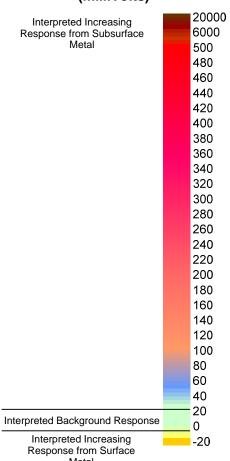
- 1. Coordinates in NC State Plane NAD 83 grid.
- 2. Data from Geonics, Ltd. EM-61 MKII instrument.
- 3. Base drawing after file "r2603_parcel_010.dxf" provided by NCDOT.
- 4. Location control from DGPS survey by URS.
- 5. GPR data from Sensors & Software, Inc. Noggin PLUS Smart Cart system with 250 MHz antenna.
- 6. GPR cross-section generated using GPR-SLICE, issued by Geophysical Archaeometry Laboratory.
- 7. UST designations in accordance with NCDOT guidelines, dated May 19, 2009.



GPR Profile Horizontal and Vertical Scale (in feet)



EM-61 MKII Differential Response (milliVolts)





View is Looking Northwest Toward the Gas Station



Appendix A Boring Logs



				ı			<u> </u>	
Permit #				Drill Date	05/28/13		Site	Parcel 10
	NCDOT			Use			URS Corporation	
Address		North 1	Wilkes	boro, Nort	h Carolina		Total Depth (ft)	10
Drilling I				rect push	Boring Depth (ft)	10	Boring Diam. (in)	2.25
Backfill I		benton			NA NA		Static Water Level	unknown
	Groundwater	not end	ounte	red	TOC Elevation		Sample Method	Acetate liner
in borin	g		1	I _	1			
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geolo	ogic Desc	cription	Typical Diagram
0						Asphalt		(3000) (3000) (3000)
2 —				0.0 ppm	_			
				0.7 ppm				
— — — 6 —				1.1 ppm	Loose, dry,	light brow	€	
				1.4 ppm			backfilled with bentonite	
				1.5 ppm				pac
10 —	P10-SB1-10	10'			Вс	ttom of bo	ring	
_								
12								Not to Scale
Notes:				l				
Geologis	st:	Michae	el Mee	se	Driller: Geologic	Explora	tion	



Client NCDOT Address Orilling Method Backfill Material Rmrks Groundwa n boring (i) Q elder O	Geopre bentor	obe dir nite	ect push	h Carolina Boring Depth (ft) 10 NA TOC Elevation Geologic De	To Bo St Sa	JRS Corporation Total Depth (ft) Boring Diam. (in) Static Water Level Sample Method	10 2.25 unknown Acetate liner									
Orilling Method Backfill Material Rmrks Groundwa n boring Camble ID Samble	Geopro bentor ater not end	obe dir nite counte	rect push	NA TOC Elevation	Bo St Sa	Boring Diam. (in) Static Water Level	2.25 unknown Acetate liner									
Backfill Material Rmrks Groundwa n boring Camble ID Samble ID	Geopro bentor ater not end	obe dir nite counte	rect push	NA TOC Elevation	St St	Static Water Level	unknown Acetate liner									
Rmrks Groundwa n boring Samble ID	ater not end	counte		TOC Elevation	Sa		Acetate liner									
Depth (ft.) Sample ID					•	Sample Method										
Depth (ft.) Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic De												
	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic De												
0					escrip	ption	Typical Diagram									
				Asph	alt		(0.000) (0.000)									
2 —			0.0 ppm													
4 —			0.0 ppm													
- - - - 6 —			0.2 ppm	Loose, dry, light br	own, s	silty Sand	€									
- - - - 8 -			0.2 ppm				backfilled with bentonite									
			0.2 ppm				pac									
10 — P10-SB2-	-10 10'			Bottom of	boring	9										
12							Not to Scale									
lotes:	•			• 		<u> </u>										



Permit #	<u> </u>			Drill Date	05/28/1	3	Site	Parcel 10
Client	NCDOT			Use			URS Corporation	
Address	,	North 1	Wilkes	boro, Nort	h Carolina		Total Depth (ft)	10
Orilling N	Method	Geopro	obe dii	rect push	Boring Depth (ft)	10	Boring Diam. (in)	2.25
Backfill N	Material	benton	ite		NA		Static Water Level	unknown
Rmrks	Groundwater	not end	ounte	red	TOC Elevation		Sample Method	Acetate liner
in borin	g	1	ı	1	1			
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/6"	OVA (ppm)	Geol	ogic Desc	cription	Typical Diagram
0 _						Asphalt		
				0.0 ppm				
				0.0 ppm				
6 —				0.8 ppm	Loose, dr	y, light brow	€	
- - - 8 -				1.0 ppm				backfilled with bentonite
_				1.1 ppm				pac
					Loose, o	dry, light tan	, silty Sand	00000
10 —	P10-SB3-10	10'			В	sottom of bo	ring	
								Not to Scale
Notes:								
Geologis	st:	Michae	el Mees	se	Driller: Geologi	c Explora	ntion	



Permit #	ŧ			Drill Date	05/28/13		Site	Parcel 10
Client	NCDOT			Use			URS Corporation	
Address	3	North 1	Vilkes	boro, Nort	h Carolina		Total Depth (ft)	10
Drilling N				ect push		0	Boring Diam. (in)	2.25
Backfill I		benton			NA NA		Static Water Level	unknown
	Groundwater	not end	ounte	red	TOC Elevation		Sample Method	Acetate liner
in borin	ng I				1			
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/6"	OVA (ppm)	Geologic	: Desc	cription	Typical Diagram
0					A	sphalt		
2 —				0.0 ppm				
				0.1 ppm	Loose, dry, ligh	nt brow		
				0.3 ppm				<
				0.4 ppm	Soft, dry, reddisł	n-orang	e, sandy Clay	backfilled with bentonite
				0.4 ppm				pac
10 —	P10-SB4-10	10'			Botton	n of bo	ring	
	-							
12								Not to Scale
Notes:					<u> </u>			
Geologis	st:	Michae	el Mee	se	Driller: Geologic Ex	plora	tion	



client NCDOT ddress prilling Method backfill Material cmrks Groundwa			Llaa				
orilling Method cackfill Material			Use			URS Corporation	
ackfill Material		Wilkes	oro, Nort	h Carolina		Total Depth (ft)	10
	Geopre	obe dir	ect push	Boring Depth (ft) 10		Boring Diam. (in)	2.25
mrks <i>Groundwa</i>	bentor	ite		NA		Static Water Level	unknown
	ter not end	counter	red	TOC Elevation		Sample Method	Acetate liner
n boring				,			
Depth (ft.) Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic	Desc	cription	Typical Diagram
0				Ası	halt		00000
2 —			0.6 ppm				
4 —			0.6 ppm				
6 —		_	0.1 ppm	Loose, dry, light	brow	n, silty Sand	€
			0.6 ppm				backfilled with bentonite
			0.8 ppm				pac
10 P10-SB5-	10 10'			Bottom	of bo	ring	
12							Not to Scale
lotes:	•			•		<u>'</u>	



Permit #				Drill Date	05/28/1	3	Site	Parcel 10
Client N	CDOT			Use			URS Corporation	
Address		North \	Wilkes	boro, Nort	h Carolina		Total Depth (ft)	10
Orilling Me	ethod	Geopro	obe dii	rect push	Boring Depth (ft)	10	Boring Diam. (in)	2.25
Backfill Ma	aterial	benton	ite		NA		Static Water Level	unknown
Rmrks G	roundwater	not end	ounte	red	TOC Elevation		Sample Method	Acetate liner
n boring			ı	1	1			
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/6"	OVA (ppm)	Geol	ogic Des	cription	Typical Diagram
0 —						Asphalt		
2 —				0.1 ppm				
4				0.8 ppm	Loose, dry, light brown, silty Sand			
6				1.1 ppm				<u></u>
8				1.2 ppm	Loose, dr	ry, olive gra	, silty Sand	backfilled with bentonite
				1.2 ppm		Palethan		pao
							n, silty Sand	
10 — F	P10-SB6-10	10'			В	sottom of bo	ring	
12								Not to Scale
Notes:			<u>I</u>	<u> </u>	ı			
Seologist:		Michae	el Mees	se	Driller: Geologic	c Explora	ntion	



BORING LOG: P10-SB7

Permit #			Drill Date	05/28/1	<u></u>	Site	Parcel 10
Client NCDOT			Use			URS Corporation	
Address	North	Wilkes		h Carolina		Total Depth (ft)	10
Orilling Method			rect push	Boring Depth (ft)	10	Boring Diam. (in)	2.25
Backfill Material	benton			NA		Static Water Level	unknown
Rmrks Groundwa t	ter not end	counte	ered	TOC Elevation		Sample Method	Acetate liner
n boring							
Depth (ft.) Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					Asphalt		
2 —			0.0 ppm				
			0.0 ppm				
4 — — —			0.0 ppm	Loose, d	ry, light brov	n, silty Sand	√
6 —			0.2 ppm				backfilled with bentonite
			0.2 ppm				pac
P10-SB7-1	0 10'			!	Bottom of bo	pring	
12							Not to Scale
otes:		<u> </u>	<u> </u>	ı			
eologist:	Michae	el Mee	se	Driller: Geologi	ic Explor	ation	

Appendix B Laboratory Report



Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

June 11, 2013

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

RE: Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2013. 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,

Kevin Herring

Kein Slern

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Enclosures

cc: Martha Meyers-Lee, URS Walt Plekan, URS





(336)623-8921

Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Charlotte Certification IDs

9800 Kincey 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

Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS



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SAMPLE SUMMARY

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92159620007	P10-SB1-10	Solid	05/28/13 15:20	05/29/13 14:40
92159620008	P10-SB2-10	Solid	05/28/13 15:40	05/29/13 14:40
92159620009	P10-SB3-10	Solid	05/28/13 16:00	05/29/13 14:40
92159620010	P10-SB4-10	Solid	05/28/13 16:15	05/29/13 14:40
92159620011	P10-SB5-10	Solid	05/28/13 16:30	05/29/13 14:40
92159620012	P10-SB6-10	Solid	05/28/13 16:45	05/29/13 14:40
92159620013	P10-SB7-10	Solid	05/28/13 17:00	05/29/13 14:40



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SAMPLE ANALYTE COUNT

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92159620007	P10-SB1-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620008	P10-SB2-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620009	P10-SB3-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620010	P10-SB4-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620011	P10-SB5-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620012	P10-SB6-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92159620013	P10-SB7-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C



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HITS ONLY

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92159620007	P10-SB1-10	<u></u>				
EPA 8015 Modified	Diesel Components	6.8 m	g/kg	6.3	05/31/13 17:53	
ASTM D2974-87	Percent Moisture	20.7 %		0.10	05/31/13 08:13	
92159620008	P10-SB2-10					
ASTM D2974-87	Percent Moisture	12.4 %		0.10	05/31/13 08:13	
92159620009	P10-SB3-10					
ASTM D2974-87	Percent Moisture	11.1 %		0.10	05/31/13 08:13	
92159620010	P10-SB4-10					
ASTM D2974-87	Percent Moisture	18.9 %		0.10	05/31/13 08:13	
92159620011	P10-SB5-10					
ASTM D2974-87	Percent Moisture	10.7 %		0.10	05/31/13 08:13	
92159620012	P10-SB6-10					
ASTM D2974-87	Percent Moisture	12.1 %		0.10	05/31/13 08:07	
92159620013	P10-SB7-10					
ASTM D2974-87	Percent Moisture	19.9 %		0.10	05/31/13 08:08	



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PROJECT NARRATIVE

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Method: EPA 8015 Modified
Description: 8015 GCS THC-Diesel
Client: NCDOT West Central
Date: June 11, 2013

General Information:

7 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



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PROJECT NARRATIVE

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Method: EPA 8015 Modified

Description: Gasoline Range Organics

Client: NCDOT West Central

Date: June 11, 2013

General Information:

7 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB1-10 Lab ID: 92159620007 Collected: 05/28/13 15:20 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weig	ght" basis								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical	Method: EP	A 8015 Modifie	ed Preparat	ion Me	thod: EPA 3546			
Diesel Components Surrogates	6.8 mg/kg		6.3	5.7	1	05/30/13 08:33	05/31/13 17:53	68334-30-5	
n-Pentacosane (S)	99 %		41-119		1	05/30/13 08:33	05/31/13 17:53	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics Surrogates	ND r	mg/kg	6.8	6.8	1	06/03/13 10:44	06/03/13 13:33	8006-61-9	
4-Bromofluorobenzene (S)	97 %	%	70-167		1	06/03/13 10:44	06/03/13 13:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	20.7 9	%	0.10	0.10	1		05/31/13 08:13		



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB2-10 Lab ID: 92159620008 Collected: 05/28/13 15:40 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weig	ght" basis								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components Surrogates	ND mg/kg 72 %		5.7	5.1	1	05/30/13 08:33	05/31/13 17:53	68334-30-5	
n-Pentacosane (S)			41-119		1	05/30/13 08:33	05/31/13 17:53	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics Surrogates	ND m	ng/kg	6.3	6.3	1	06/03/13 10:44	06/03/13 13:56	8006-61-9	
4-Bromofluorobenzene (S)	89 %		70-167		1	06/03/13 10:44	06/03/13 13:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.4 %		0.10	0.10	1		05/31/13 08:13		



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05/30/13 08:33 05/31/13 18:16 629-99-2

06/03/13 10:44 06/03/13 14:19 460-00-4

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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Surrogates n-Pentacosane (S)

4-Bromofluorobenzene (S)

Date: 06/11/2013 09:13 AM

Received: 05/29/13 14:40 Sample: P10-SB3-10 Lab ID: 92159620009 Collected: 05/28/13 16:00 Matrix: Solid Results reported on a "dry-weight" basis Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546 05/30/13 08:33 05/31/13 18:16 68334-30-5 **Diesel Components** ND mg/kg 5.6 5.1

Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B

95 %

87 %

Gasoline Range Organics ND mg/kg 6.3 6.3 1 06/03/13 10:44 06/03/13 14:19 8006-61-9 Surrogates 70-167

41-119

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 11.1 % 0.10 0.10 05/31/13 08:13 1



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB4-10 Lab ID: 92159620010 Collected: 05/28/13 16:15 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weig	ıht" basis								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical I	Method: EP/	A 8015 Modifie	d Preparat	ion Me	thod: EPA 3546			
Diesel Components Surrogates	ND m	g/kg	6.2	5.5	1	05/30/13 08:33	05/31/13 18:16	68334-30-5	
n-Pentacosane (S)	91 %		41-119		1	05/30/13 08:33	05/31/13 18:16	629-99-2	
Gasoline Range Organics	Analytical I	Method: EPA	A 8015 Modifie	d Preparat	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	ND m	g/kg	6.9	6.9	1	06/03/13 10:44	06/03/13 14:42	8006-61-9	
4-Bromofluorobenzene (S)	94 %		70-167		1	06/03/13 10:44	06/03/13 14:42	460-00-4	
Percent Moisture	Analytical I	Method: AS	ΓM D2974-87						
Percent Moisture	18.9 %		0.10	0.10	1		05/31/13 08:13		



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB5-10 Lab ID: 92159620011 Collected: 05/28/13 16:30 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weigh	t" basis								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical	Method: EPA	8015 Modifie	d Preparat	ion Me	thod: EPA 3546			
Diesel Components Surrogates	ND m	g/kg	5.6	5.0	1	05/30/13 08:33	05/31/13 18:40	68334-30-5	
n-Pentacosane (S)	79 %	•	41-119		1	05/30/13 08:33	05/31/13 18:40	629-99-2	
Gasoline Range Organics	Analytical	Method: EPA	8015 Modifie	d Preparat	ion Me	thod: EPA 5035A	5030B		
Gasoline Range Organics Surrogates	ND m	g/kg	5.9	5.9	1	06/03/13 10:44	06/03/13 15:05	8006-61-9	
4-Bromofluorobenzene (S)	84 %)	70-167		1	06/03/13 10:44	06/03/13 15:05	460-00-4	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	10.7 %)	0.10	0.10	1		05/31/13 08:13		



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB6-10 Lab ID: 92159620012 Collected: 05/28/13 16:45 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weig	ght" basis									
Davarantara	Daguita	Lleite	Report	MDI	D.E.	Duamanad	A l	040 N	Overl	
Parameters	Results —	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel	Analytical N	Method: EPA								
Diesel Components Surrogates	ND mọ	g/kg	5.7	5.1	1	05/30/13 08:33	05/31/13 18:40	68334-30-5		
n-Pentacosane (S)	72 %		41-119		1	05/30/13 08:33	05/31/13 18:40	629-99-2		
Gasoline Range Organics	Analytical N	Method: EP/	A 8015 Modifie	d Prepara	tion Me	ethod: EPA 5035A	/5030B			
Gasoline Range Organics Surrogates	ND mọ	g/kg	7.4	7.4	1	06/03/13 10:44	06/03/13 15:29	8006-61-9		
4-Bromofluorobenzene (S)	84 %		70-167		1	06/03/13 10:44	06/03/13 15:29	460-00-4		
Percent Moisture	Analytical N	Method: AS	ΓM D2974-87							
Percent Moisture	12.1 %		0.10	0.10	1		05/31/13 08:07			



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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Sample: P10-SB7-10 Lab ID: 92159620013 Collected: 05/28/13 17:00 Received: 05/29/13 14:40 Matrix: Solid

Results reported on a "dry-weigl	ht" basis								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical M	lethod: EPA	8015 Modifie	d Preparat	ion Me	thod: EPA 3546			
Diesel Components Surrogates	ND mg	/kg	6.2	5.6	1	05/30/13 08:33	05/31/13 19:04	68334-30-5	
n-Pentacosane (S)	65 %		41-119		1	05/30/13 08:33	05/31/13 19:04	629-99-2	
Gasoline Range Organics	Analytical M	lethod: EPA	8015 Modifie	d Preparat	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	ND mg	/kg	6.5	6.5	1	06/03/13 10:44	06/03/13 15:52	8006-61-9	
4-Bromofluorobenzene (S)	87 %		70-167		1	06/03/13 10:44	06/03/13 15:52	460-00-4	
Percent Moisture	Analytical M	lethod: AST	M D2974-87						
Percent Moisture	19.9 %		0.10	0.10	1		05/31/13 08:08		



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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

QC Batch: GCV/6949 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics

Associated Lab Samples: 92159620007, 92159620008, 92159620009, 92159620010, 92159620011, 92159620012, 92159620013

METHOD BLANK: 985346 Matrix: Solid

Associated Lab Samples: 92159620007, 92159620008, 92159620009, 92159620010, 92159620011, 92159620012, 92159620013

Blank Reporting

Limit Qualifiers Parameter Units Result Analyzed Gasoline Range Organics ND 06/03/13 10:06 mg/kg 6.0 4-Bromofluorobenzene (S) % 88 70-167 06/03/13 10:06

LABORATORY CONTROL SAMPLE: 985347

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Gasoline Range Organics mg/kg 49.8 46.3 93 70-165 4-Bromofluorobenzene (S) 90 70-167 %

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 985348 985349 MSD MS 92159620001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Gasoline Range Organics mg/kg ND 50.5 50.5 60.3 61.1 119 121 47-187 30 4-Bromofluorobenzene (S) % 87 92 70-167



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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

QC Batch: OEXT/22357 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV

Associated Lab Samples: 92159620007, 92159620008, 92159620009, 92159620010, 92159620011, 92159620012, 92159620013

METHOD BLANK: 983389 Matrix: Solid

Associated Lab Samples: 92159620007, 92159620008, 92159620009, 92159620010, 92159620011, 92159620012, 92159620013

Blank Reporting Result Limit Qualifiers Parameter Units Analyzed **Diesel Components** ND 05/31/13 16:18 mg/kg 5.0 n-Pentacosane (S) % 97 41-119 05/31/13 16:18

LABORATORY CONTROL SAMPLE: 983390

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Diesel Components** mg/kg 66.7 65.5 98 49-113 n-Pentacosane (S) % 95 41-119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 983391 983392 MSD MS 92159620020 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual **Diesel Components** mg/kg ND 86.5 86.5 53.0 61.4 54 64 10-146 15 30 80 n-Pentacosane (S) % 75 41-119



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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

QC Batch: PMST/5564 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92159620007, 92159620008, 92159620009, 92159620010, 92159620011

SAMPLE DUPLICATE: 983263

92159608004 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers % 20.6 Percent Moisture 20.0 3 25

SAMPLE DUPLICATE: 983264

Date: 06/11/2013 09:13 AM

92159620011 Dup Max RPD RPD Parameter Units Result Qualifiers Result Percent Moisture % 10.7 10.2 4 25



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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

QC Batch: PMST/5565 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92159620012, 92159620013

SAMPLE DUPLICATE: 983286

92159498001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers % 33.3 Percent Moisture 32.3 3 25

SAMPLE DUPLICATE: 983287

Date: 06/11/2013 09:13 AM

92159617001 Dup Max RPD RPD Parameter Units Result Qualifiers Result % Percent Moisture 12.6 11.2 11 25



Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALIFIERS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

Date: 06/11/2013 09:13 AM

PASI-C Pace Analytical Services - Charlotte



(336)623-8921

Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wilkes County 36000.1.1

Pace Project No.: 92160966

Date: 06/11/2013 09:13 AM

Lab ID Sample ID		QC Batch Method	QC Batch	Analytical Method	Analytical Batch		
92159620007	P10-SB1-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620008	P10-SB2-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620009	P10-SB3-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620010	P10-SB4-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620011	P10-SB5-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620012	P10-SB6-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620013	P10-SB7-10	EPA 3546	OEXT/22357	EPA 8015 Modified	GCSV/14755		
92159620007	P10-SB1-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620008	P10-SB2-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620009	P10-SB3-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620010	P10-SB4-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620011	P10-SB5-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620012	P10-SB6-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620013	P10-SB7-10	EPA 5035A/5030B	GCV/6949	EPA 8015 Modified	GCV/6950		
92159620007	P10-SB1-10	ASTM D2974-87	PMST/5564				
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92159620012	P10-SB6-10	ASTM D2974-87	PMST/5565				
92159620013	P10-SB7-10	ASTM D2974-87	PMST/5565				



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant flexts must be completed accurately.

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"important Note: By signing this form you are accepting Prace'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-020rev.08, 12-Oct-2007

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