

PSA REPORT

**PRELIMINARY SITE ASSESSMENT
PARCEL #34
ROBERT & JANICE ASHLEY PROPERTY
410 ELKIN HIGHWAY
WILKESBORO, WILKES COUNTY, NC
STATE PROJECT R-2603
WBS ELEMENT 36001.1.2**

Prepared for

North Carolina Department of Transportation
Geotechnical Engineering Unit
Geoenvironmental Section
Century Center Complex, Building B
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July 31, 2013



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URS Job No. 3182 8761

TABLE OF CONTENTS

Section 1	Introduction.....	1-1
	1.1 Introduction.....	1-1
	1.2 Background.....	1-1
Section 2	Methods of Investigation	2-1
	2.1 Geophysical Survey	2-1
	2.2 Soil Boring Installation and Media Sampling.....	2-2
	2.3 Quality Control/Quality Assurance Procedures.....	2-2
Section 3	Results	3-1
	3.1 Geophysical Survey Results	3-1
	3.2 Soil Sampling Results.....	3-1
	3.3 Summary.....	3-2
Section 4	Limitations	4-1
Section 5	References.....	5-1

TABLES

Table 1	Summary of Soil TPH Analytical Results
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FIGURES

Figure 1	Location Map
Figure 2	Soil Sampling Locations
Figure 3	EM-61 MKII Channel 1 Response Contours
Figure 4	EM-61 MKII Differential Response Contours & GPR Survey Results

APPENDICES

Appendix A	Historical Information
Appendix B	Boring Logs
Appendix C	Laboratory Report

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

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 south side of Elkin Highway, approximately 600 feet east of the intersection of White Pine Street. This PSA was conducted at 410 Elkin Highway Wilkesboro, Wilkes County, North Carolina (**Figure 1**), owned by Robert & Janice Ashley (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 qualified 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, Inc. 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 by Elkin Highway to the north, commercial properties to the west, a vacant wooded parcel to the east and wooded land to the south. The property currently operates as a gas station.

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 the Facility ID as 0-005069 (Mt. Holly Enterprises), and no groundwater incidents were associated with the property. However, a customer complaint about water in the gasoline (2003) and UST compliance inspection (2010) were located in NCDENRs files, and are included as **Appendix A**.

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 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

Three direct-push soil borings, P34-SB1 through P34-SB3, were installed on May 29, 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 metallic features exist. Features of note include a catch basin cover and a section of 18-inch corrugated metal pipe on the northeastern portion of the surveyed area.

In addition, Channel 1 results in **Figure 3** indicate an increase in negative response values across the surveyed area. This 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. In this particular instance, no anomalies indicative of a potential UST was identified in **Figure 4**.

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

Due to the size of the parcel and ease of traversing the survey area, a follow-up GPR survey across the survey area was conducted. The instrument did not indicate reflections consistent with the characteristics of USTs.

3.2 SOIL SAMPLING RESULTS

A total of three soil borings were advanced to approximately 10 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 reddish sandy clay. The boring logs are included as **Appendix B** and the complete laboratory report is included in **Appendix C**.

As shown in **Appendix B**, soil headspace screening in the field detected very low concentrations of organic vapors (0-1.2 parts per million). Neither TPH (GRO) nor TPH (DRO) was detected in any of the soil samples collected for laboratory analysis.

3.3 SUMMARY

The following summarizes the findings of NCDOT Parcel 34, located at 410 Elkin Highway:

- Very limited historical files were located for the property. A NCDENR incident number was not identified for the site;
- The geophysical survey did not indicate the presence of USTs or associated features;
- Field screening did not detect the presence of organic vapors above background concentrations;
- TPH (DRO and GRO) were not detected in any of the soil samples collected for laboratory analysis.

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.

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 3, 2013.

United States Environmental Protection Agency, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, 1999.

Tables

Table 1
Parcel 34 - Robert Ashley and Janice Ashley
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 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
P34-SB1-10	05/29/2013	10	ND	ND
P34-SB3-10	05/29/2013	10	ND	ND
P34-SB7-10	05/29/2013	10	ND	ND
NCDENR UST Section Action Level			10	10
NCDENR Non-UST Petroleum 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

Figures

P:\Jobs4\Projects\NCDOT\31828761 R-2603 Wilkes PSA\7.0 Graphics\16.2 - AutoCad\Figure 1s.dwg July 11, 2013 - 2:50 PM

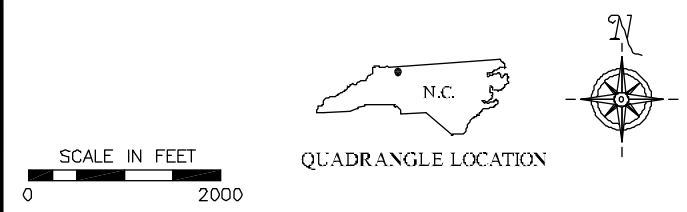
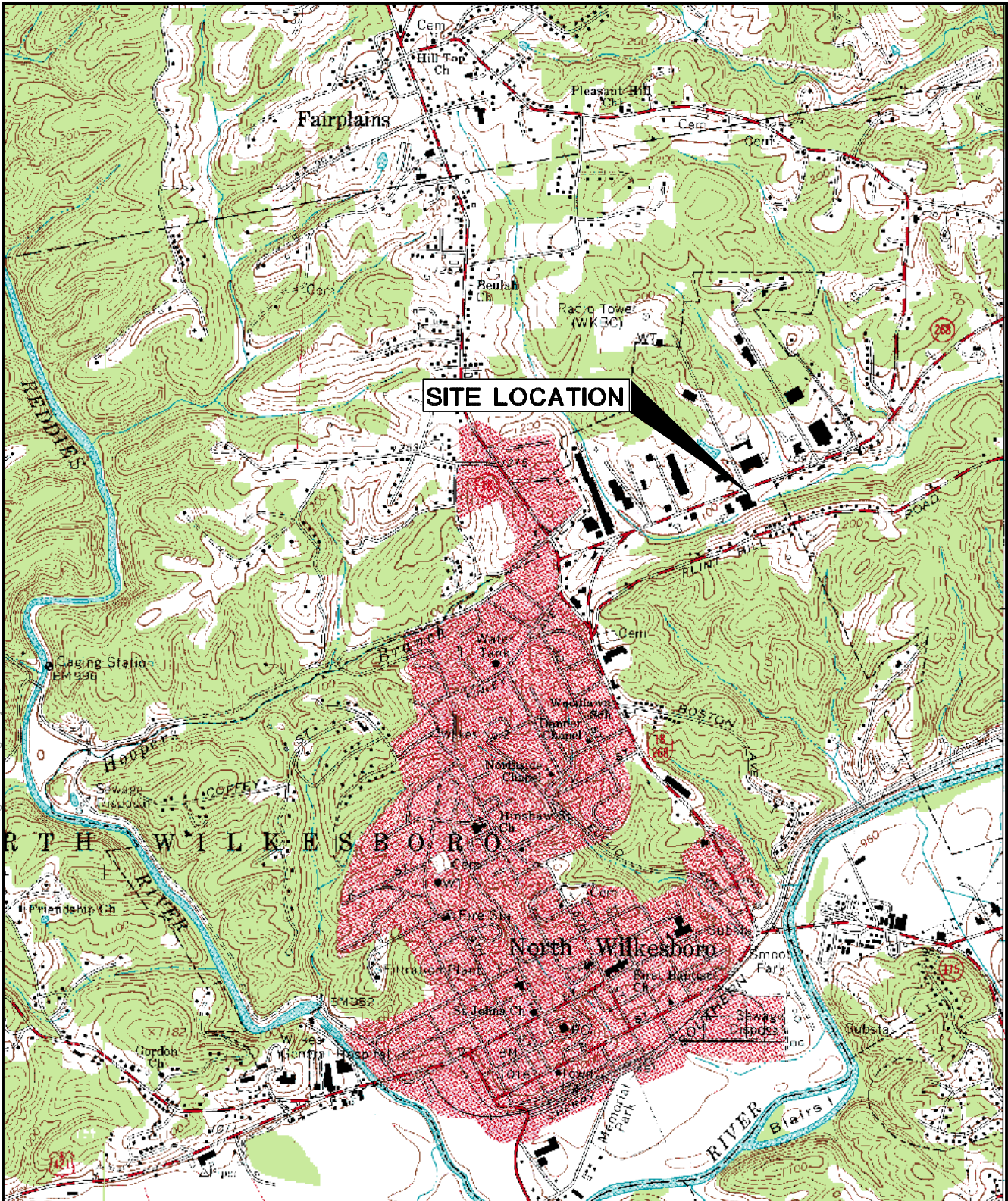



FIGURE 1. LOCATION MAP
PARCEL 34, 410 ELKIN HIGHWAY
STATE PROJECT R-2603, WILKESBORO, NC

Prepared for: NC DOT		 <small>ROU, NORTH CAROLINA 27560</small>	Fig. 1
DRAWN BY:	TSH		
DATE:	07/11/13		
PROJECT NO. 31828761			

SOURCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE WILKESBORO, NC - DATED 1966

GeoEnvironmental



LEGEND

- SB2 SOIL BORING LOCATION
- PROPOSED RIGHT-OF-WAY
- PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE
- KNOWN SOIL CONTAMINATION
- EXISTING MONITORING WELL

SBI-10	ID - DEPTH
ND	TPH / DRO
ND	TPH / GRO

SOIL RESULTS ARE IN mg/kg

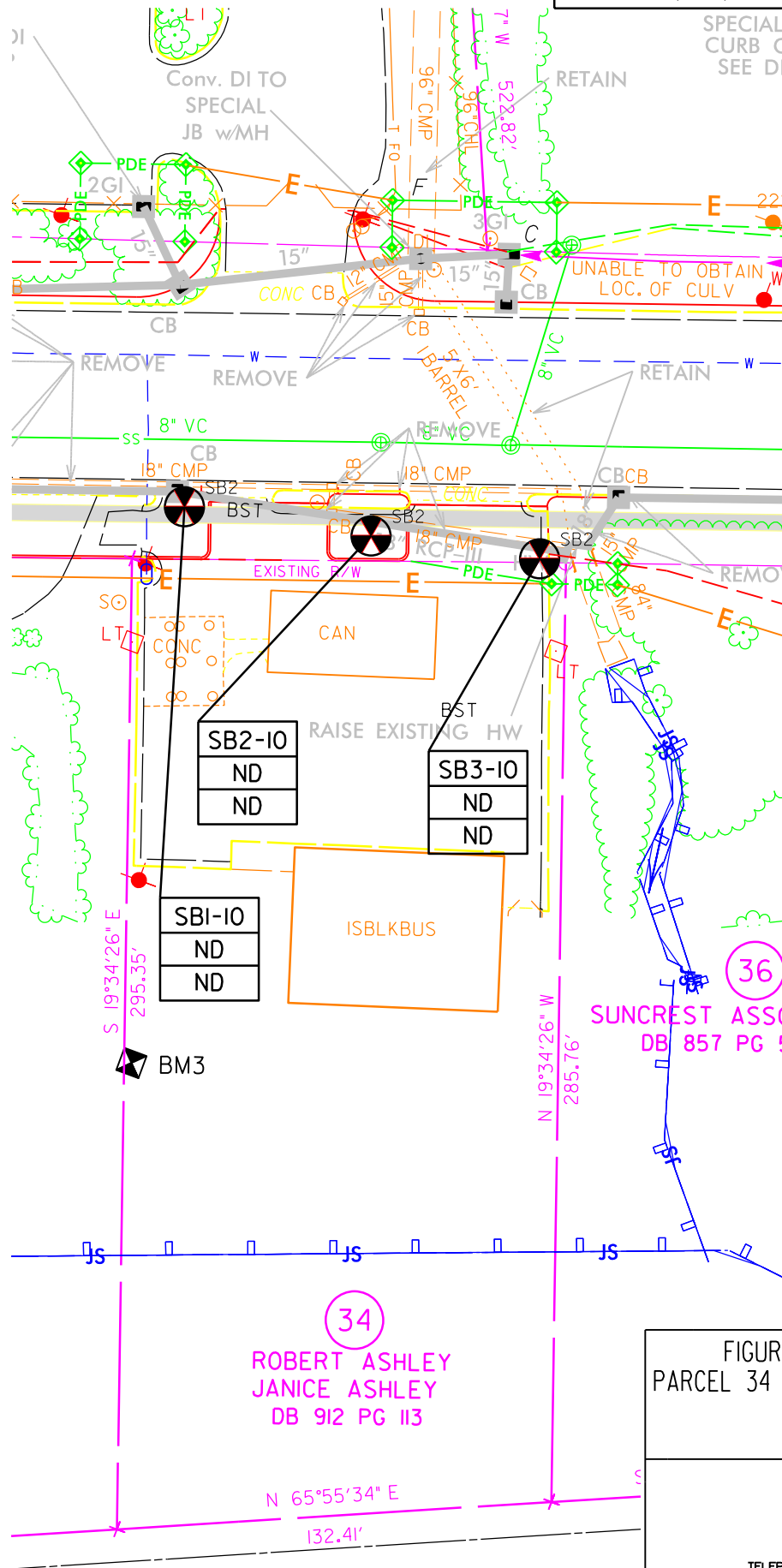


FIGURE 2 SOIL SAMPLING LOCATIONS
PARCEL 34 - ROBERT ASHLEY & JANICE ASHLEY
STATE PROJECT R-2603
WILKES COUNTY, NC

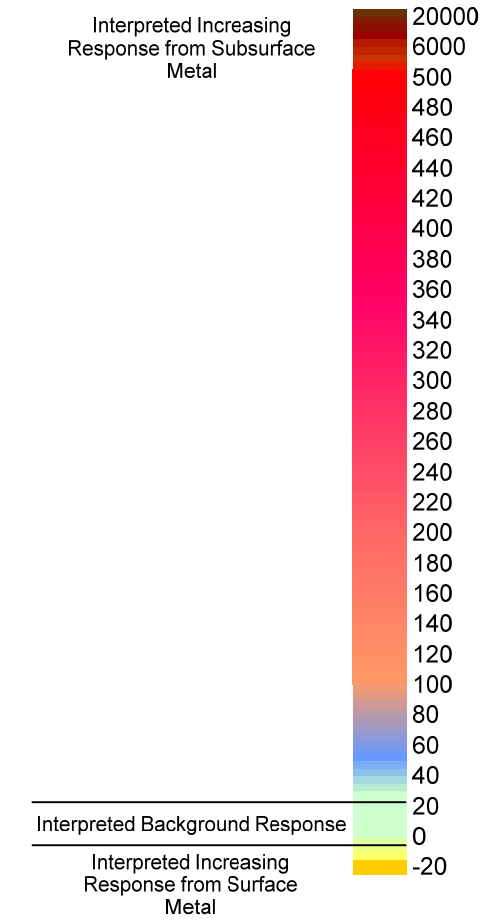
URS Corporation - North Carolina
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
NC LIC # C-2243

TELEPHONE (919) 461-1100 FAX (919) 461-1415

DRN BY: LHM	DATE: 6-27-13	STATE PROJECT:
CHECKED BY: VK	DATE: 6-28-13	R-2603



EM-61 MKII Channel 1 Response (millivolts)



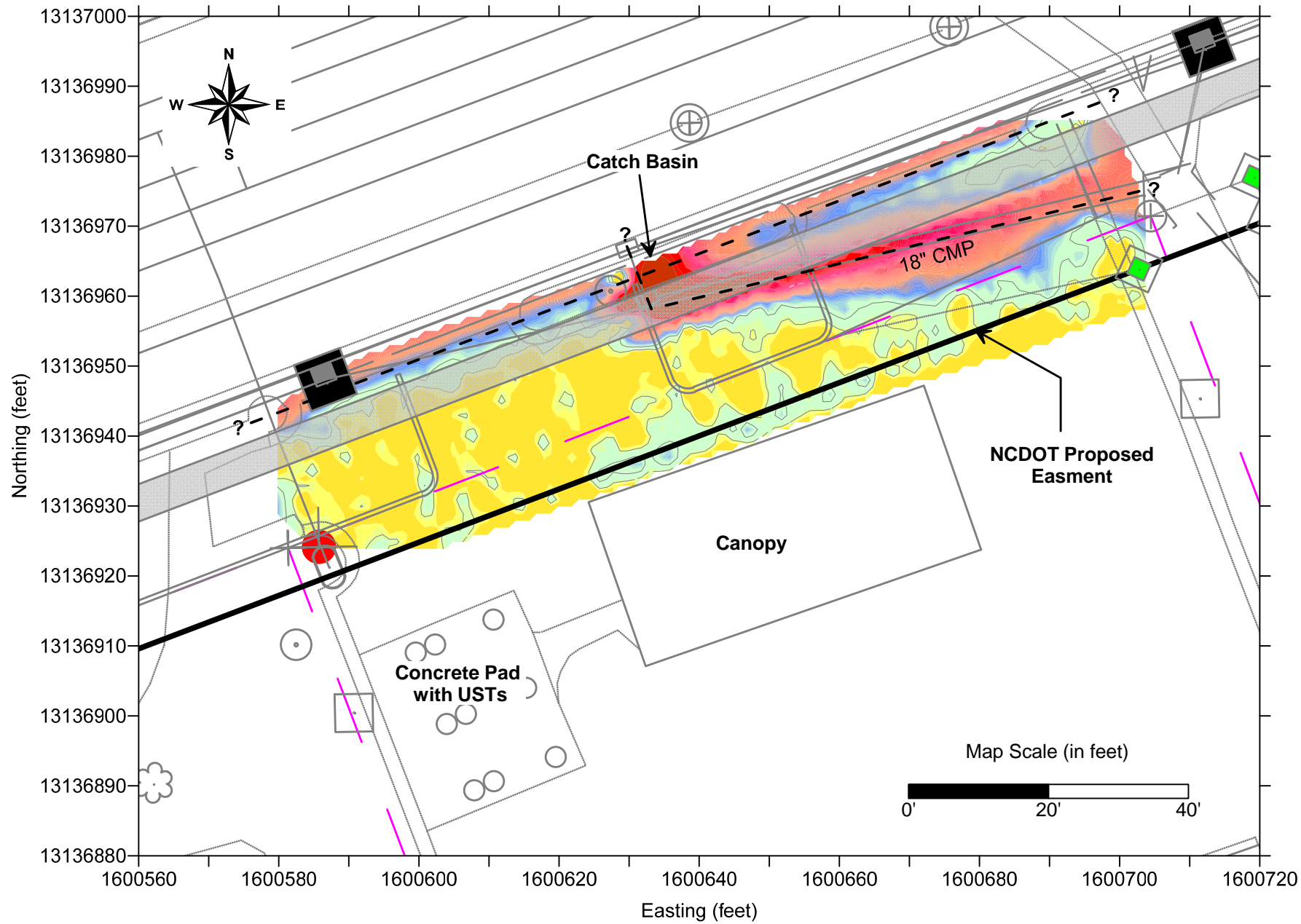
Legend

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

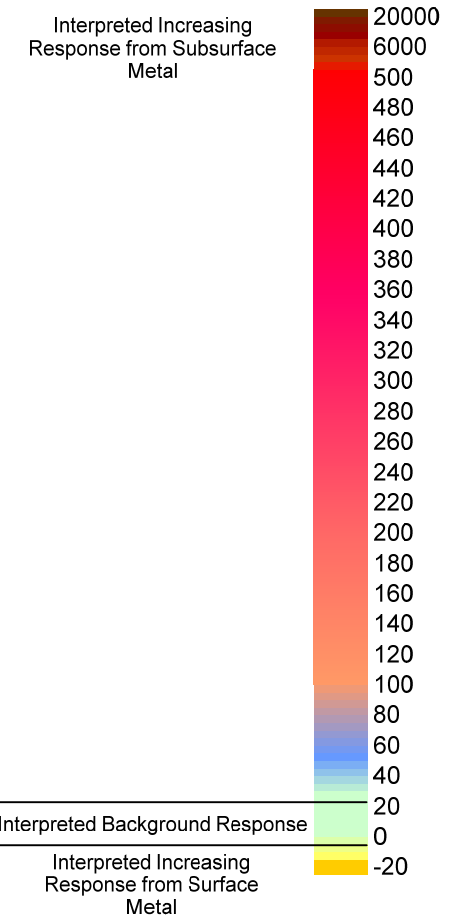
Notes:

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_034.dxf" provided by NCDOT.
4. Location control from DGPS survey by URS.

		1600 Perimeter Park Drive, Suite 400 Raleigh, NC 27560 (910)-508-3869	
EM-61 MKII Channel 1 Response Contours ROBERT ASHLEY & JANET ASHLEY PROPERTY (Parcel #34)			
NCDOT WBS 36000.1.1, Wilkes County			
Wilkesboro, North Carolina			
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
MJM	03/06/13	MJM	06/03/13
		TJK	07/19/10
			31828761
			Figure 3



EM-61 MKII Differential Channel Response (millivolts)



Legend

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

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_034.dxf" provided by NCDOT.
4. Location control from DGPS survey by URS.

URS Geophysical Services		1600 Perimeter Park Drive, Suite 400 Raleigh, NC 27560 (910)-508-3869	
EM-61 MKII Differential Channel Response Contours ROBERT ASHLEY & JANET ASHLEY PROPERTY (Parcel #34)			
NCDOT WBS 36000.1.1, Wilkes County			
Wilkesboro, North Carolina			
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
MJM	03/06/13	MJM	06/03/13
		TJK	07/19/10
			31828761
			Figure 4

Appendix A
Historical Information

Subject: Inspection

Date: Wed, 03 Sep 2003 11:48:57 -0400

From: Michael Phelps <Michael.Phelps@ncmail.net>

Organization: NC DENR - Division of Waste Management, UST Section

To: stephanie graham <stephanie.graham@ncmail.net>

Stephanie,

A complaint has been received about the following station in N. Wilkesboro
Run-In #828, 811 Elkin Hwy, (268 East), N. Wilkesboro

A customer of the site purchased gas that contained a large amount of water and subsequently his car quit operating. Additionally once it was brought to the RP's attention they pumped the water/gas mixture out of the tanks onto the ground at the store. The person who phoned in the complaint was a Cecil Brooks at (336) 927-2998 or (336) 670-2718. Mr. Brooks also called the Dept of Agriculture and they are onsite today apparently. Can you schedule an inspection within the next week and let me know the outcome (by email). Thanks.

--

Michael Phelps
NC DENR Winston-Salem Regional Office
Division of Waste Management, UST Section
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-4608 ext 298
FAX: (336) 771-4632

0-005069

15A
NCAC 2N

NC Division of Waste Management / Underground Storage Tank Section

Violations and Corrective Actions for 2N Compliance Inspections (Attachment)

Violation / Corrective Action

.0603

Violation Code: RLS6 (DW FRP or Flexible Piping)

Violation: Failure to investigate a suspected release in accordance with federal regulation 40 CFR 280.52 (as incorporated by 15A NCAC 2N .0603) after an unusual operating condition has been observed. ("Unusual operating conditions" include, but are not limited to, the erratic behavior of dispensing equipment; the unexplained presence of water in the tank; the presence of fuel in containment sumps or interstitial spaces; or the degradation of any equipment or element of an underground storage tank system to the point where that equipment or element can not reasonably be expected to perform its intended function.)

Required Corrective Action: Tank owners or operators must investigate a suspected release as directed below. (Mark all that apply).

A. Conduct a precision line tightness test on the primary section of the piping system(s) in accordance with 40 CFR 280.44(b) (as incorporated by 15A NCAC 2N .0505) and conduct a tightness test of the secondary (interstitial) space of any double-walled systems in accordance with the manufacturers instructions for the piping associated with tank(s) _____. If the line tightness test (LTT) results are not "pass" and the test of the secondary (interstitial) space results are "pass" then complete item A.(b) below. Otherwise, if the results of both tests or only the secondary test are not "pass" you must complete all of the following tasks:

(a) Conduct a site check around the piping for the tanks listed above in accordance with 40 CFR 280.52(b) (as incorporated by 15A NCAC 2N .0603) using the sampling protocol and methodology of the most recent version of the UST Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement and submit, within 30 days of receipt of this notice, a site check report or initial abatement report (whichever is applicable) to the inspector at the address provided; **AND**

(b) Repair, in accordance with the manufacturer's recommendations, or replace the piping. Once repaired or replaced, test the primary and secondary spaces of the piping in accordance with the manufacturer's instructions. Replaced piping must meet the secondary containment requirements of 15A NCAC 2N .0900.

B. Have a representative of the piping manufacturer or an equipment contractor inspect and repair the piping associated with tank(s) midgrady in accordance with the manufacturers recommendations. If the representative of the piping manufacturer authorizes the piping to remain in the ground following corrective action, then a written statement from the manufacturer should be provided that states the warranty is unaffected and remains in affect. Once repaired, conduct a precision line tightness test on the primary section of the piping system(s) in accordance with 40 CFR 280.44(b) (as incorporated by 15A NCAC 2N .0505) and conduct a tightness test of the secondary (interstitial) space of any double-walled systems in accordance with the manufacturers instructions for the piping.

C. The condition of the piping associated with the following tank(s) _____ has deteriorated such that they must be removed and replaced. All piping replaced must meet the secondary containment requirements of 15A NCAC 2N .0900. The inspector must be contacted prior to piping replacement to allow inspection of the damaged equipment. Additionally, conduct a site check around the piping for the tanks listed above in accordance with 40 CFR 280.52(b) (as incorporated by 15A NCAC 2N .0603) using the sampling protocol and methodology of the most recent version of the UST Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement and submit, within 30 days of receipt of this notice, a site check report or initial abatement report (whichever is applicable) to the inspector at the address provided.

Within 30 days of receipt of this notice submit a UST-17B, UST Suspected Release 7 Day Notice, with the results and any supporting information for all equipment repairs, equipment replacements, tightness test(s), and site check as required in the above sections to the inspector at the address provided.

UST Siting and Spill / Overfill Prevention



Date: 2/23/2010

Inspector's Name: Keith Mosteller

Page: ____ of ____

Facility ID#: 0-005069

Water Supply / Protected Waters – UST Siting Issues

	YES	NO
1. Is municipal water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Do any businesses or homes within 500 feet of the UST system use a human consumption well? ¹	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Are there any protected surface waters* within 500 feet of the UST system? ¹	<input type="checkbox"/>	<input checked="" type="checkbox"/>

*classified as High Quality Water (HQW), Outstanding Resource Water (ORW), Water Supply I (WS-I), Water Supply II (WS-II) or Shell Fishing (SA)

¹ If either questions 2 or 3 are answered with a YES, complete Page 16

II. Site Diagram / Comments

If needed, indicate the location of the following:

- tanks
- dispensers
- permanent structures (distances to)
- roads
- water supply wells
- monitoring wells
- surface waters
- other things of interest

III. Spill and Overfill Prevention Equipment

	Tank #1	Tank #2	Tank #3	Tank #4	Tank #5	Tank #6
1. Spill prevention equipment present? (Y, N)	Y	Y	Y			
2. Spill bucket is double-walled? (if installed after 11/1/07) (Y, N, N/A)	N/A	N/A	N/A			
3. Spill bucket is isolated or made of non-corroding materials? (if installed after 11/1/07) (Y, N, N/A)	N/A	N/A	N/A			
4. Overfill prevention equipment: (Ball Float, Flapper Valve, High-Level Alarm, None)	B	B	B			
5. Overfill prevention equipment verified? (Y, N)	Y	Y	Y			
6. Annual Overfill check date (if installed after 11/1/07)	N/A	N/A	N/A			
7. Annual Overfill check results (if installed after 11/1/07) (P, F, N/A)	N/A	N/A	N/A			
8. Is a drop tube present? (Y, N)	Y	Y	Y			
9. Stage I vapor recovery present? (Co-axial, Dual Point, None)	DC	DC	DC			

IV. Permit Information

1. Permit Expiration Date: 03/2010	2. Transporter / Fuel Deliverer: <i>Reliable Oil</i> (Mandatory field)
3. Tank listed on operating permit? (Y, N)	Y
4. Any deliveries to unpermitted tank? (Y, N) <small>If yes, complete Page 17, Deliveries to Unpermitted Tanks.</small>	N

water in spill buckets, tanks are in temp closure, working on bringing out of closure cleaned spill buckets Letter & pictures dated 5/10/10 from Barrett Petro Works

Date: 05/10/10

Mr. Keith Mosteller

2728 Capital Blvd.

Raleigh, N.C. 27699-1637

Mr. Mosteller

Recently you conducted a compliance inspection at Run-In 828 located at 811 Elkin Hwy. 268 East North Wilkesboro, N.C. 28659. During the inspection you found the following violations. The purpose of this letter is to inform you of the measures we have taken to correct these violations.

A. Violation code WPG10 No. 0302 Spill Prevention Equipment were emptied and cleaned. Pictures are attached.

B. Violation code RLS6 No. 0603 an equipment contractor David Barrett has inspected and repaired the piping associated with tank #2 (middle tank) pictures are attached. Reports of line tightness and tank tightness along with helium test results. Reports and letters attached.

C. Violations code LD1 No. 0502

We have conducted a tank tightness test. Results from reports are attached.
Results from line tightness test are attached.

D. Violation code LD18 No. 0505

We have conducted a line leak detector test, a copy with results are attached.

Appendix B
Boring Logs



BORING LOG: P34-SB1

Permit #	Drill Date 05/29/13	Site Parcel 34
Client NCDOT	Use	URS Corporation
Address North Wilkesboro, North Carolina		Total Depth (ft) 10
Drilling Method Geoprobe direct push	Boring Depth (ft) 10	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					Asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.2 ppm	Loose, dry, light brown, silty Sand	
6				0.2 ppm		
8				0.6 ppm	Soft, dry, reddish-orange, sandy Clay	
10	P34-SB1-10	10'		0.7 ppm	Bottom of boring	Not to Scale
12						

Notes:

Geologist: **Michael Meese** Driller: **Geologic Exploration**



BORING LOG: P34-SB2

Permit #	Drill Date 05/29/13	Site Parcel 34
Client NCDOT	Use	URS Corporation
Address North Wilkesboro, North Carolina		Total Depth (ft) 10
Drilling Method Geoprobe direct push	Boring Depth (ft) 10	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0				0.7 ppm		
2				0.9 ppm		
4				1.2 ppm	Loose, dry, light brown, silty Sand	
6				1.0 ppm		
8				1.2 ppm		
10	P34-SB2-10	10'			Bottom of boring	
12						Not to Scale

Notes:	
Geologist: Michael Meese	Driller: Geologic Exploration



BORING LOG: P34-SB3

Permit #	Drill Date 05/29/13	Site Parcel 34
Client NCDOT	Use	URS Corporation
Address North Wilkesboro, North Carolina		Total Depth (ft) 10
Drilling Method Geoprobe direct push	Boring Depth (ft) 10	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					Asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.2 ppm	Loose, dry, light brown, silty Sand	
6				0.2 ppm		
8				0.6 ppm	Soft, moist, dark gray, sandy Clay	
10	P34-SB3-10	10'		0.7 ppm	Bottom of boring	
12						Not to Scale

Notes:

Geologist: **Michael Meese** Driller: **Geologic Exploration**

Appendix C
Laboratory Report



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

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kinsey 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.: 92160969

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 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

kevin.herring@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Wilkes County 36000.1.1
Pace Project No.: 92160969

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

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

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(704)875-9092

SAMPLE SUMMARY

Project: Wilkes County 36000.1.1
Pace Project No.: 92160969

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92159846001	P34-SB1-10	Solid	05/29/13 13:00	05/30/13 14:45
92159846002	P34-SB7-10	Solid	05/29/13 13:30	05/30/13 14:45
92159846003	P34-SB3-10	Solid	05/29/13 13:55	05/30/13 14:45

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SAMPLE ANALYTE COUNT

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92159846001	P34-SB1-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92159846002	P34-SB7-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92159846003	P34-SB3-10	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C

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 Huntersville, NC 28078
 (704)875-9092

HITS ONLY

Project: Wilkes County 36000.1.1
 Pace Project No.: 92160969

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92159846001	P34-SB1-10					
ASTM D2974-87	Percent Moisture	20.9 %		0.10	06/04/13 08:04	
92159846002	P34-SB7-10					
ASTM D2974-87	Percent Moisture	26.4 %		0.10	06/04/13 08:04	
92159846003	P34-SB3-10					
ASTM D2974-87	Percent Moisture	21.6 %		0.10	06/04/13 08:04	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Wilkes County 36000.1.1
Pace Project No.: 92160969

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

General Information:

3 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

Method: EPA 8015 Modified
Description: Gasoline Range Organics
Client: NCDOT West Central
Date: June 11, 2013

General Information:

3 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

Sample: P34-SB1-10 **Lab ID: 92159846001** Collected: 05/29/13 13:00 Received: 05/30/13 14:45 Matrix: Solid

Results reported on a "dry-weight" 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	ND	mg/kg	6.3	5.7	1	05/31/13 07:55	06/03/13 23:29	68334-30-5	
Surrogates									
n-Pentacosane (S)	99 %		41-119		1	05/31/13 07:55	06/03/13 23:29	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.2	6.2	1	06/03/13 16:29	06/04/13 03:52	8006-61-9	
Surrogates									
4-Bromofluorobenzene (S)	83 %		70-167		1	06/03/13 16:29	06/04/13 03:52	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.9 %		0.10	0.10	1		06/04/13 08:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1
Pace Project No.: 92160969

Sample: P34-SB7-10 **Lab ID: 92159846002** Collected: 05/29/13 13:30 Received: 05/30/13 14:45 Matrix: Solid

Results reported on a "dry-weight" 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	ND	mg/kg	6.8	6.1	1	05/31/13 07:55	06/03/13 23:29	68334-30-5	
Surrogates									
n-Pentacosane (S)	79	%	41-119		1	05/31/13 07:55	06/03/13 23:29	629-99-2	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gasoline Range Organics	ND	mg/kg	6.5	6.5	1	06/03/13 16:29	06/04/13 04:15	8006-61-9	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-167		1	06/03/13 16:29	06/04/13 04:15	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.4	%	0.10	0.10	1		06/04/13 08:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

Sample: P34-SB3-10 **Lab ID: 92159846003** Collected: 05/29/13 13:55 Received: 05/30/13 14:45 Matrix: Solid

Results reported on a "dry-weight" 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	ND	mg/kg	6.4	5.7	1	05/31/13 07:55	06/03/13 23:53	68334-30-5	
Surrogates									
n-Pentacosane (S)	100	%	41-119		1	05/31/13 07:55	06/03/13 23:53	629-99-2	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gasoline Range Organics	ND	mg/kg	6.3	6.3	1	06/04/13 10:36	06/04/13 11:49	8006-61-9	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-167		1	06/04/13 10:36	06/04/13 11:49	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	21.6	%	0.10	0.10	1		06/04/13 08:04		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

QC Batch: GCV/6951 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92159846001, 92159846002

METHOD BLANK: 985812 Matrix: Solid

Associated Lab Samples: 92159846001, 92159846002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	06/03/13 19:53	
4-Bromofluorobenzene (S)	%	89	70-167	06/03/13 19:53	

LABORATORY CONTROL SAMPLE: 985813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.8	46.7	94	70-165	
4-Bromofluorobenzene (S)	%			90	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 985814 985815

Parameter	Units	92159620021 Result	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Gasoline Range Organics	mg/kg	ND	44.6	50.6	43.7	113	98	47-187	15	30		
4-Bromofluorobenzene (S)	%					88	85	70-167				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

QC Batch:	GCV/6953	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	92159846003		

METHOD BLANK: 985983 Matrix: Solid

Associated Lab Samples: 92159846003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.9	06/04/13 11:26	
4-Bromofluorobenzene (S)	%	83	70-167	06/04/13 11:26	

LABORATORY CONTROL SAMPLE: 985984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.5	45.8	93	70-165	
4-Bromofluorobenzene (S)	%			85	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 985985 985986

Parameter	Units	92159846003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Gasoline Range Organics	mg/kg	ND	52.3	52.3	58.9	64.7	112	123	47-187	9	30
4-Bromofluorobenzene (S)	%						90	88	70-167		

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QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1
Pace Project No.: 92160969

QC Batch: OEXT/22379 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92159846001, 92159846002, 92159846003

METHOD BLANK: 984324 Matrix: Solid
Associated Lab Samples: 92159846001, 92159846002, 92159846003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	06/03/13 21:56	
n-Pentacosane (S)	%	102	41-119	06/03/13 21:56	

LABORATORY CONTROL SAMPLE: 984325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	61.9	93	49-113	
n-Pentacosane (S)	%			105	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 984326 984327

Parameter	Units	92159846004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Diesel Components	mg/kg	ND	85.4	85.4	64.0	62.0	73	70	10-146	3	30		
n-Pentacosane (S)	%						92	84	41-119				

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 9800 Kinsey Ave. Suite 100
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 (704)875-9092

QUALITY CONTROL DATA

Project: Wilkes County 36000.1.1
 Pace Project No.: 92160969

QC Batch: PMST/5567 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92159846001, 92159846002, 92159846003

SAMPLE DUPLICATE: 984258

Parameter	Units	92159635002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	18.0	1	25	

SAMPLE DUPLICATE: 984259

Parameter	Units	92159846003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.6	21.0	3	25	

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QUALIFIERS

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

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

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wilkes County 36000.1.1

Pace Project No.: 92160969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92159846001	P34-SB1-10	EPA 3546	OEXT/22379	EPA 8015 Modified	GCSV/14767
92159846002	P34-SB7-10	EPA 3546	OEXT/22379	EPA 8015 Modified	GCSV/14767
92159846003	P34-SB3-10	EPA 3546	OEXT/22379	EPA 8015 Modified	GCSV/14767
92159846001	P34-SB1-10	EPA 5035A/5030B	GCV/6951	EPA 8015 Modified	GCV/6952
92159846002	P34-SB7-10	EPA 5035A/5030B	GCV/6951	EPA 8015 Modified	GCV/6952
92159846003	P34-SB3-10	EPA 5035A/5030B	GCV/6953	EPA 8015 Modified	GCV/6954
92159846001	P34-SB1-10	ASTM D2974-87	PMST/5567		
92159846002	P34-SB7-10	ASTM D2974-87	PMST/5567		
92159846003	P34-SB3-10	ASTM D2974-87	PMST/5567		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: URS Corporation
 Address: 1600 Perimeter Park Drive, Suite 400
 Morrisville, NC 27560
 Report To: Martha Meyers-Lee
 Copy To: Walt Pilekan
 Purchase Order No.: State TIP #R-2603; WBS# 36000.1.1
 Project Name: Wilkes County
 Project Number: 31828761

Section B
 Required Project Information:
 Report To: Martha Meyers-Lee
 Copy To: Walt Pilekan
 Purchase Order No.: State TIP #R-2603; WBS# 36000.1.1
 Project Name: Wilkes County
 Project Number: 31828761

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Queue Reference:
 Pace Project Manager: Kevin Herring
 Pace Profile #: 56970-1

REGULATORY AGENCY
 NPDES GROUND WATER
 UST RCRA DRINKING WATER
 OTHER _____
 Site Location STATE: NC

Page: 1 of 1

ITEM #	Section D Required Client Information	Valid 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						Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START	COMPOSITE END/GRAH			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			TPH: DRO	TPH: GRO
1	P34-SB1-10	SL	G	G	06/29/13	13:00		4	X					X	X					92159846001
2	P34-SB7-10	SL	G	G	06/29/13	13:30		4	X					X	X					002
3	P34-SB3-10	SL	G	G	06/29/13	13:55		4	X					X	X					003
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS: *COC Addendum*

RELINQUISHED BY / AFFILIATION: *Walt Pilekan for MPE*

DATE: *6/29/13*

TIME: *1445*

ACCEPTED BY / AFFILIATION: _____

DATE: _____

TIME: _____

SAMPLE CONDITIONS

Temp in °C _____

Received on Ice (Y/N) _____

Custody Sealed Cooler (Y/N) _____

Samples Intact (Y/N) _____

SAMPLER NAME AND SIGNATURE: *Walt Pilekan for MPE*

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE SIGNED (MM/DD/YYYY): _____

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-020rev.08, 12-Oct-2007