

Preliminary Site Assessment
Newton Developers Property Parcel #43
Boone, Watauga County, NC

State Project U-4020
WBS Element # 35015.1.1
H&H Job No. ROW-148
May 29, 2008



2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704-586-0007

3334 Hillsborough Street
Raleigh, NC 27607
919-847-4241

**Preliminary Site Assessment Report
Newton Developers Property Parcel #43
Boone, Watauga County, North Carolina
H&H Project ROW-148**

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**Preliminary Site Assessment
Newton Developers Property Parcel #43
Boone, Watauga County, North Carolina
H&H Project ROW-148**

1.0 Introduction

Hart & Hickman, PC (H&H) has prepared this Preliminary Site Assessment (PSA) report documenting assessment activities performed at the Newton Developers property (NC DOT Parcel #43) located at 524 East King Street (US Highway 421) in Boone, Watauga County, North Carolina. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with the scope of work outlined in our February 29, 2008 proposal.

The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in the proposed construction areas related to the widening of US Highway 421 (State Project U-4020). A site location map is included as Figure 1 and a site map is presented as Figure 2. The NC DOT preliminary plan of the US Highway 421 widening area near the Newton Developers property is included in Appendix A.

Based on information provided by NC DOT and property neighbors, the Newton Developers property is currently Boone Polaris, a recreational vehicle retailer and mechanical service center. It may have operated as a gas station at some unspecified time in the past. H&H did not observe surface evidence of current USTs or of a previous UST removal on the property.

2.0 Site Assessment

H&H mobilized to the Newton Developers property on April 2 through April 4, and April 10, 2008 to advance twelve soil borings (43-1 through 43-11 and 43-A) by direct push technology (DPT). Prior to advancing the soil borings, H&H reviewed the preliminary results of a geophysical survey performed at the site on March 10 and 18, 2008 by Schnabel Engineering (Schnabel). Schnabel utilized ground penetrating radar (GPR) and electromagnetic induction (EM) technology to identify

potential geophysical anomalies and potential USTs at the site. Schnabel identified one magnetic anomaly as a potential UST. Follow-up with GPR also showed evidence of one potential UST. The potential UST is situated north of the site building. Schnabel's report including a site map depicting the results of the GPR and TDEM results is included in Appendix B.

Prior to conducting soil borings, utilities were marked by NC One Call and by DOT's contractor Vaughn and Melton. Borings were also cleared to a five ft depth by hand auger. H&H utilized Geologic Exploration of Statesville, North Carolina to advance soil borings 43-1 through 43-11 and 43-A (see Figure 2). To facilitate the selection of soil samples for laboratory analysis from these borings, soil was screened continuously for the presence of volatile organic compounds (VOCs) with an organic vapor analyzer (OVA). Additionally, H&H observed the soil for visual and olfactory indications of petroleum impacts. In general, soil samples that exhibited the highest readings on the OVA were selected for laboratory analysis. Soil boring logs are included in Appendix C.

H&H submitted twelve samples (43-1 @ 4-6 ft; 43-2 @ 7-10 ft; 43-3 @ 5-7 ft; 43-4 @ 5-7 ft; 43-5 @ 5-7 ft; 43-6 @ 2-4 ft; 43-7 @ 2-4 ft; 43-8 @ 2-4 ft; 43-9 @ 2-4 ft; 43-10 @ 7-10 ft; 43-11 @ 7-10 ft and 43-A @ 2-4 ft) for laboratory analysis. Soil samples are identified by the NC DOT parcel number, soil boring number, and the depth interval in feet. Samples were sent to Prism Laboratories Inc. (Prism), of Charlotte, North Carolina, for laboratory analysis. All soil samples were analyzed for total petroleum hydrocarbons (TPH) for gasoline-range organics (GRO) and diesel-range organics (DRO) by EPA Method 8015B. Because of stained concrete in an outside oil or waste oil drum storage area, samples 43-6 (2-4 ft), 43-7 (2-4 ft), 43-8 (2-4 ft), 43-9 (2-4 ft), 43-10 (7-10 ft), 43-11 (7-10 ft), and 43-A (2-4 ft) were submitted for laboratory analysis of VOCs by EPA Method 8260B, Oil and Grease (O&G) by EPA Method 9071A, and TPH GRO and TPH DRO. Sample depths and analytical results are summarized in Table 1. Laboratory analytical data sheets and chain-of-custody documentation for Parcel 43 soil samples are provided in Appendix D. The chain-of-custody form includes samples collected from other nearby parcels. The analytical results are discussed below.

3.0 Analytical Results

Target analytes were detected in soil samples collected from Parcel 43. The VOCs acetone and/or tetrachloroethene (PCE) were detected in samples 43-7 (2-4 ft), 43-8 (2-4 ft), 43-9 (2-4 ft), 43-10 (7-10 ft), 43-11 (7-10 ft) and 43-A (2-4 ft). Acetone is suspected to be laboratory introduced. Concentrations of PCE in samples 43-8 (2-4 ft) and 43-11 (7-10 ft) exceed the NC DENR Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs). PCE was also detected in samples 43-7 (2-4 ft) and 43-9 (2-4 ft). PCE is a commonly used solvent in industrial and commercial applications. O&G, TPH GRO, and TPH DRO were not detected in the soil samples analyzed.

Based on laboratory analytical results, low level PCE concentrations are present on Parcel 43 beneath the eastern portion of the building and drum storage area. H&H estimates that there are roughly 500 cubic yards (700 tons) of impacted soil beneath the drum storage area and eastern portion of the building. Based on the impacts in shallow samples, it is assumed that soil impacts begin near the surface.

Existing grade level at the drum storage area is approximately 12 feet higher than existing grade level in the basement of the building. DOT plans indicate a proposed cut of 2 to 3 ft in the drum storage area and will likely add fill above impacted soils beneath eastern half of the building due to the basement. Because soil impacts in each area likely begin near existing grade, the impacted soil will be disturbed by DOT work. Impacted soil may also be generated by building demolition and utility line work below existing grade. Impacted soil that is removed should be properly managed and disposed at a permitted facility.

Because the specific source of PCE impacts is unknown, H&H does not believe that the impacted soil will qualify as a listed hazardous waste. Considering the low PCE concentrations detected, the soil impacts could likely be disposed as non-hazardous impacted soil by applying the 20 to 1 rule without characterizing the waste using the Toxicity Characteristic Leaching Procedure (TCLP) for VOCs. However, the disposal facility may ask for TCLP metals and/or other analyses for soil removed from the oil drum area based on waste oil being a potential contaminant.

4.0 Summary and Regulatory Considerations

H&H has reviewed geophysical survey results and collected soil samples at Parcel 43. One potential UST is present within the proposed DOT road work area. Based on analytical results and including PCE impacts that are below MSCCs, H&H estimates that there are roughly 500 cubic yards (700 tons) of impacted soil beneath the drum storage area and eastern portion of the building. Based on the impacts in shallow samples, it is assumed that soil impacts begin near the surface.

Existing grade level at the drum storage area is approximately 12 feet higher than existing grade level in the basement of the building. DOT plans indicate a proposed cut of 2 to 3 ft in the drum storage area and will likely add fill above impacted soils beneath eastern half of the building. Because soil impacts in each area likely begin near existing grade, the impacted soil will be disturbed. Impacted soil may also be generated by building demolition and utility line work below existing grade. Impacted soil that is removed should be properly managed and disposed at a permitted facility.

Because the specific source of PCE impacts is unknown, H&H does not believe that the impacted soil qualifies as a listed hazardous waste. Considering the low PCE concentrations detected, the soil impacts could likely be disposed as non-hazardous impacted soil.

Although no soil impacts were identified in the soil samples collected adjacent to the heating oil UST, impacted soil may be present directly under the UST. Impacted soil, if any, that is removed should be properly managed and disposed at a permitted facility. H&H recommends that the UST and its contents be removed and disposed.

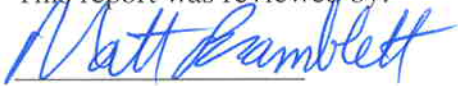
5.0 Signature Page

This report was prepared by:

A handwritten signature in blue ink that reads "David Graham" with a stylized flourish at the end.

David Graham
Project Geologist for
Hart and Hickman, PC

This report was reviewed by:

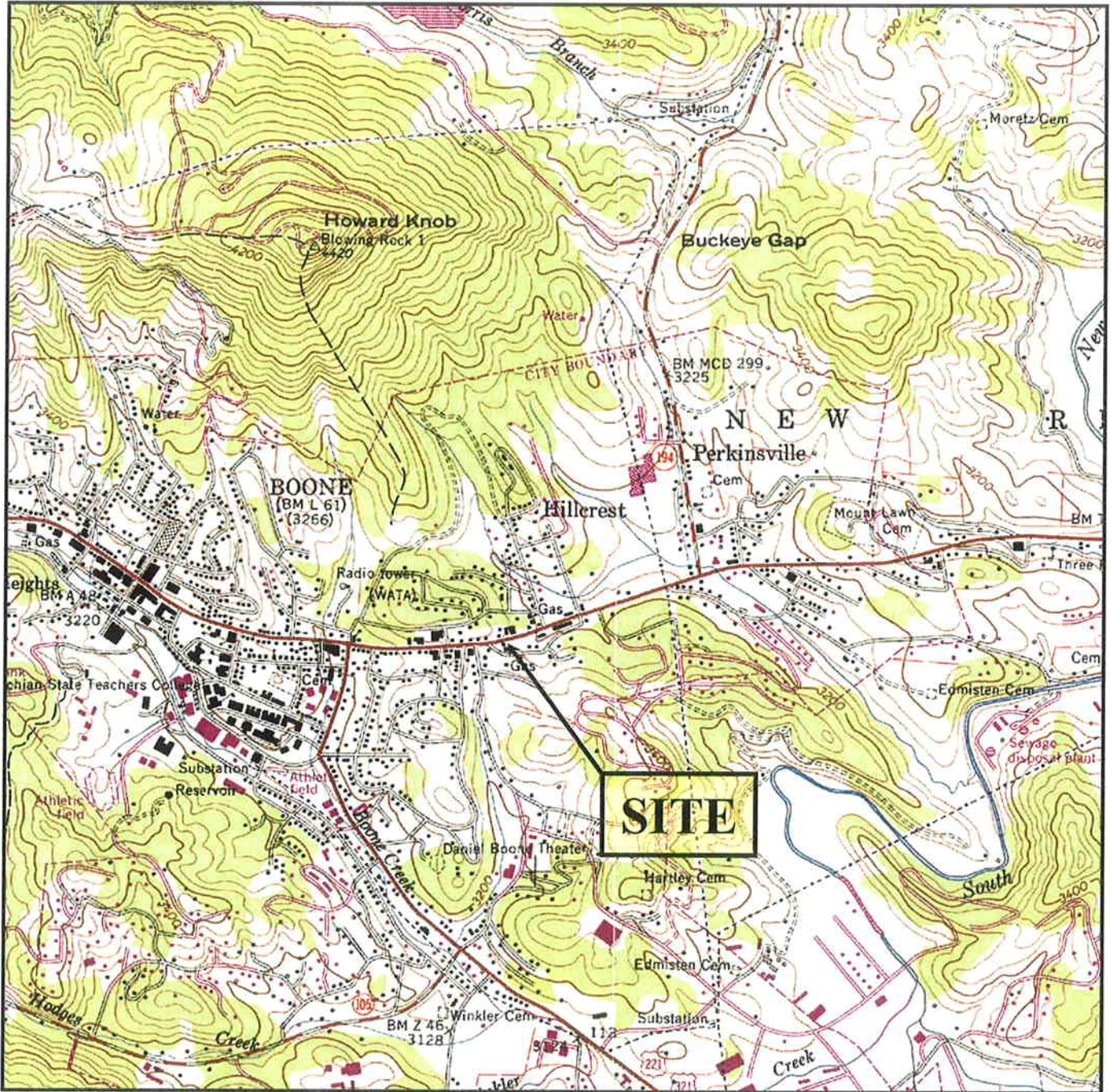
A handwritten signature in blue ink that reads "Matt Bramblett" with a stylized flourish at the end.

Matt Bramblett, PE
Principal and Project Manager for
Hart and Hickman, PC

Table 1
Soil Analytical Results
Newton Developers Property, Parcel #43
Boone, North Carolina
H&H Job No. ROW-148

Sample ID Sample Depth (ft) Sample Date Units	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-8	43-9	43-10	43-11	43-A	NC DENR Soil-to-Groundwater MSCCs (mg/kg)
	4-6 4/2/2008 (mg/kg)	7-10 4/2/2008 (mg/kg)	5-7 4/2/2008 (mg/kg)	5-7 4/2/2008 (mg/kg)	5-7 4/2/2008 (mg/kg)	2-4 4/3/2008 (mg/kg)	2-4 4/3/2008 (mg/kg)	2-4 4/3/2008 (mg/kg)	2-4 4/3/2008 (mg/kg)	7-10 4/3/2008 (mg/kg)	7-10 4/4/2008 (mg/kg)	2-4 4/10/2008 (mg/kg)	
<u>VOCs (5035/8260B)</u> Acetone Tetrachloroethylene	NA NA	NA NA	NA NA	NA NA	NA NA	<0.050 <0.0050	0.077 0.0068	0.11 0.011	<0.059 0.0059	0.078 <0.0052	0.082 0.010	0.15 <0.0051	2.8 0.0074
													NC DENR Action Level (mg/kg)
<u>TPH O&G (9071)</u> Oil and Grease	NA	NA	NA	NA	NA	<47	<47	<40	<45	<41	<41	<37	250
<u>TPH-DRO/GRO (8015B)</u> Diesel-Range Organics (DRO) Gasoline-Range Organics (GRO)	<8.7 <6.2	<8.6 <6.1	<8.2 <5.9	<7.9 <5.6	<8.0 <5.7	<9.2 <6.7	<9.3 <6.7	<7.9 <5.7	<8.8 <6.4	<8.1 <5.8	<8.2 <5.9	<7.4 <5.3	10 10


Notes:
EPA Method follows parameter in parenthesis;
BRL = Below laboratory reporting limit; VOCs = Volatile organic compounds
TPH = Total petroleum hydrocarbons; NA = Not analyzed
MSCCs = Maximum Soil Contaminant Concentrations "UST Guidelines for Petroleum Releases, 2007"

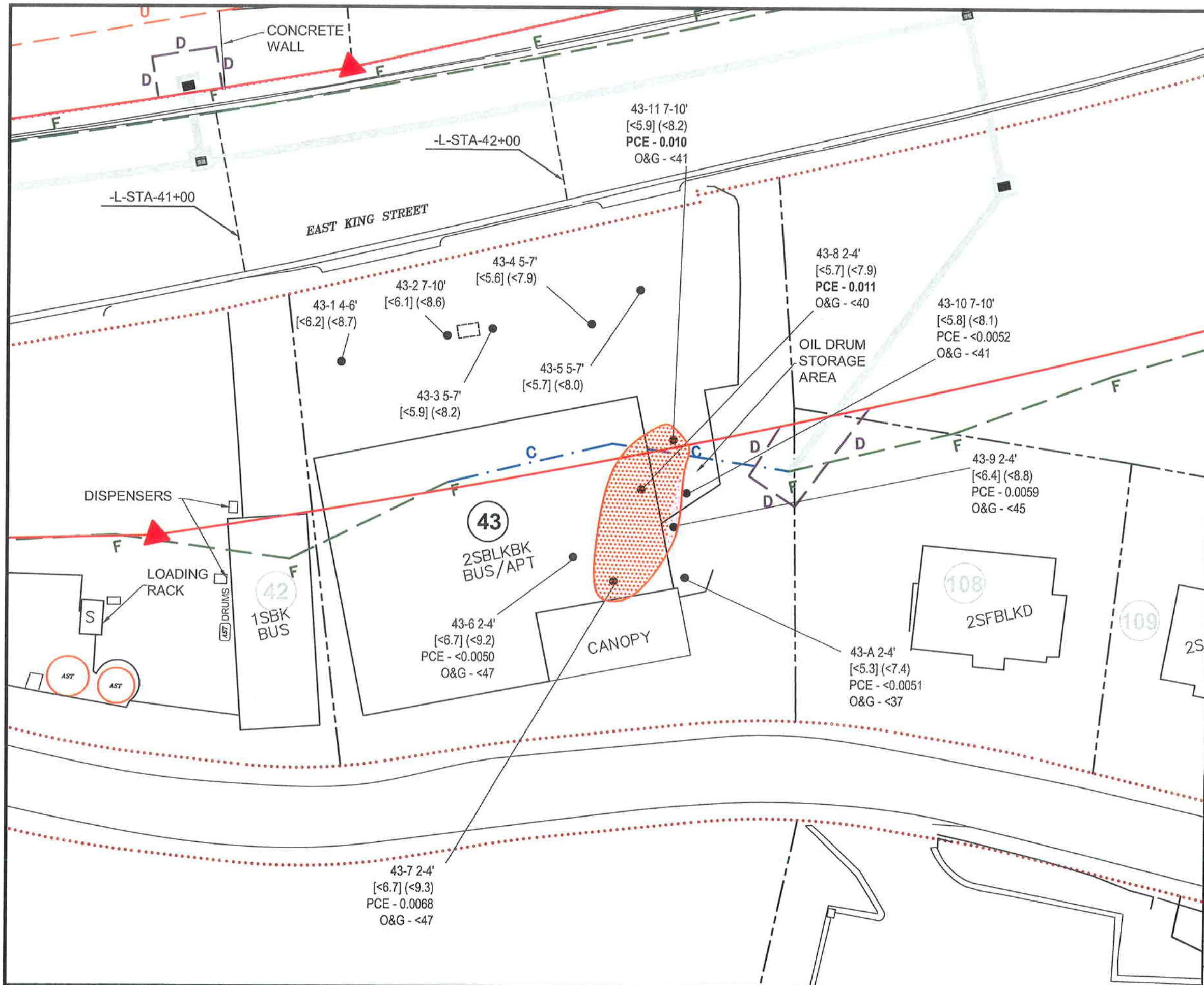


U.S.G.S. QUADRANGLE MAP

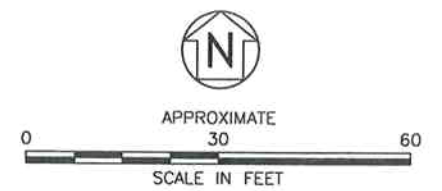
**BOONE, NC 1959
PHOTOREVISED 1978**


QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP		
PROJECT	NEWTON DEVELOPERS PROPERTY PARCEL #43 BOONE, NORTH CAROLINA		
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 A PROFESSIONAL CORPORATION 704-586-0007 (p) 704-586-0370 (f)			
DATE:	4-28-08	REVISION NO:	0
JOB NO:	ROW-148	FIGURE NO:	1



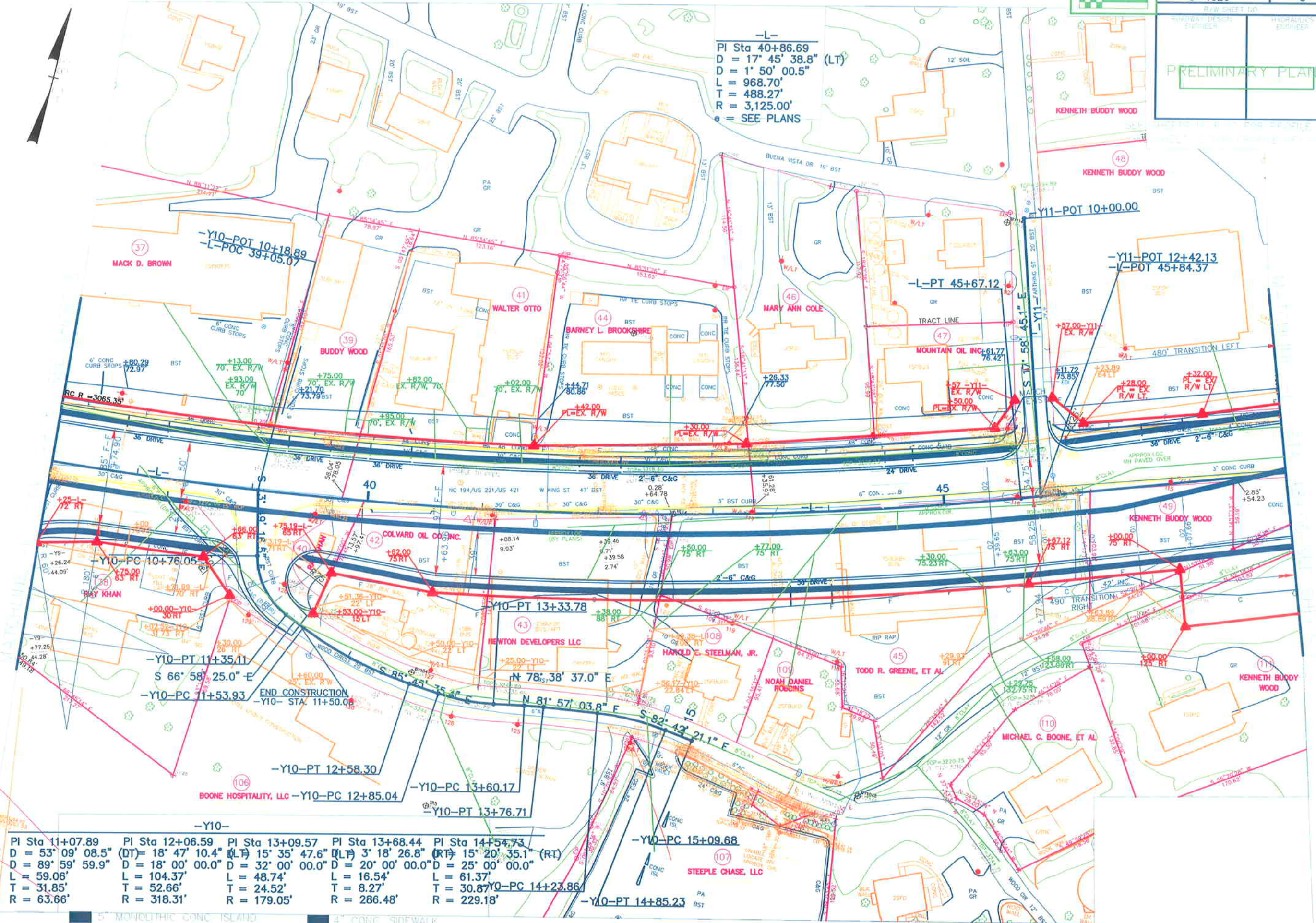
- LEGEND**
- PROPERTY LINE
 - EXISTING RIGHT-OF-WAY
 - ▲ PROPOSED RIGHT-OF-WAY
 - F- PROPOSED FILL LINE
 - T- PROPOSED TRANSITION LINE
 - C- PROPOSED CUT LINE
 - D- PROPOSED DRAINAGE EASEMENT
 - [Red Hatched] IMPACTED SOIL AREA
 - [Green Hatched] PROPOSED DRAINAGE PIPE
 - [Square with 'CB'] PROPOSED CATCH BASIN
 - SOIL BORING
 - [Square with 'UST'] UST BASIN IDENTIFIED BY SCHNABEL
 - ④ 43 PARCEL NUMBER
 - [] = TPH GRO mg/kg
 - () = TPH DRO mg/kg
 - BOLD** DENOTES REGULATORY EXCEEDANCE
 - PCE = TETRACHLOROETHENE mg/kg
 - O&G = OIL AND GREASE mg/kg



TITLE SITE MAP AND SOIL ANALYTICAL RESULTS	
PROJECT NEWTON DEVELOPERS PROPERTY PARCEL #43 BOONE, NORTH CAROLINA	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f)	
DATE: 4-24-08	REVISION NO. 0
JOB NO: ROW-148	FIGURE: 2

Appendix A
NC DOT Preliminary Plan

-L-
 PI Sta 40+86.69
 D = 17' 45" 38.8" (LT)
 D = 1' 50" 00.5"
 L = 968.70'
 T = 488.27'
 R = 3,125.00'
 e = SEE PLANS



-Y10-				
PI Sta 11+07.89	PI Sta 12+06.59	PI Sta 13+09.57	PI Sta 13+68.44	PI Sta 14+54.73
D = 53° 09' 08.5"	(DT) = 18° 47' 10.4"	(LT) = 15° 35' 47.6"	(LT) = 3° 18' 26.8"	(RT) = 15° 20' 35.1" (RT)
D = 89° 59' 59.9"	D = 18° 00' 00.0"	D = 32° 00' 00.0"	D = 20° 00' 00.0"	D = 25° 00' 00.0"
L = 59.06'	L = 104.37'	L = 48.74'	L = 16.54'	L = 61.37'
T = 31.85'	T = 52.66'	T = 24.52'	T = 8.27'	T = 30.87'
R = 63.66'	R = 318.31'	R = 179.05'	R = 286.48'	R = 229.18'

Appendix B
Schnabel Geophysical Report

April 28, 2008

Mr. Matt Bramblett, PE
Hart & Hickman, PC
2923 South Tryon Street, Suite 100
Charlotte, NC 28203

RE: State Project: U-4020
WBS Element: 35015.1.1
County: Watauga
Description: US 421 (King Street) from US 321 (Hardin Street) to east
of NC 194 (Jefferson Road) in Boone

SUBJECT: Report on Geophysical Surveys of Parcel 43
Schnabel Engineering Project No. 07210023.07

Dear Mr. Bramblett:

This letter contains our report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes one 8.5x11 color figure and two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on March 10 and March 18, 2008, in the accessible areas of Parcel 43 (Newton Developer Property, Boone Polaris) under our 2007 contract with the NCDOT. Parcel 43 is located on the south side of US 421 (King Street) between Wood Circle and Farthing Street in Boone, NC. The work was conducted at the location indicated by the NCDOT to support their environmental assessment of the subject parcel. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the site.

2.0 FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (building, curbs, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings. The geophysical investigation consisted of an electromagnetic (EM) induction survey using a Geonics EM61-MK2 instrument, and a ground-penetrating radar survey using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna.

The EM61 data were collected along parallel survey lines spaced about 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features and reinforced concrete. A possible UST was located and marked on the ground at this site. Pictures of the location of this possible UST as marked in the field are shown in Figure 1.

Preliminary results were sent to David Graham and Matt Bramblett of Hart & Hickman on March 24, 2008.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 2 and 3. The EM61 early time gate results are plotted on Figure 2. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 3 shows the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as UST's.

The early time gate and differential results show a high amplitude response around the northeast corner of the building probably in response to reinforced concrete, as well as some anomalies caused by known site features (Figures 2 and 3). Areas containing anomalies not attributed to known cultural features in the EM61 data, and an area of reinforced concrete were investigated using GPR. The GPR data collected over a small EM anomaly about 10 feet north of the northwest corner of the concrete area indicated the presence of a possible UST. An example GPR image showing the reflection from the possible UST is shown on Figures 2 and 3. Figures 2 and 3 also include the location of the possible UST as marked in the field. The GPR data indicate that the possible UST is buried about 3 to 4 feet below the ground surface, and it is about 3 feet in diameter and about 5 feet long, equivalent to a capacity of about 270 gallons.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 43 of Project U-4020 in Boone, NC indicates the following:

- The geophysical data indicate the presence of a possible UST on Parcel 43. The possible UST is about 270-gallon capacity and is buried about 3 to 4 feet below ground surface.

5.0 LIMITATIONS

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

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

Sincerely,



Jeremy S. Strohmeyer, P.G.
Project Manager

JW/JS/NB

Attachment: Figures (3)

FILE: G:\2007 PROJECTS\07210023 (NCDOT 2007 GEOPHYSICAL SERVICES)\PIASE 07 (U-4020 - WA LAUGA COUNTY)\REPORT HART & HICKMAN\PARCEL 43-REPORT ON PARCEL 43.DOC



Parcel 43 – Boone Polaris, looking south
UST: 3' x 5'



Parcel 43 – Boone Polaris, looking west
UST: 3' x 5'

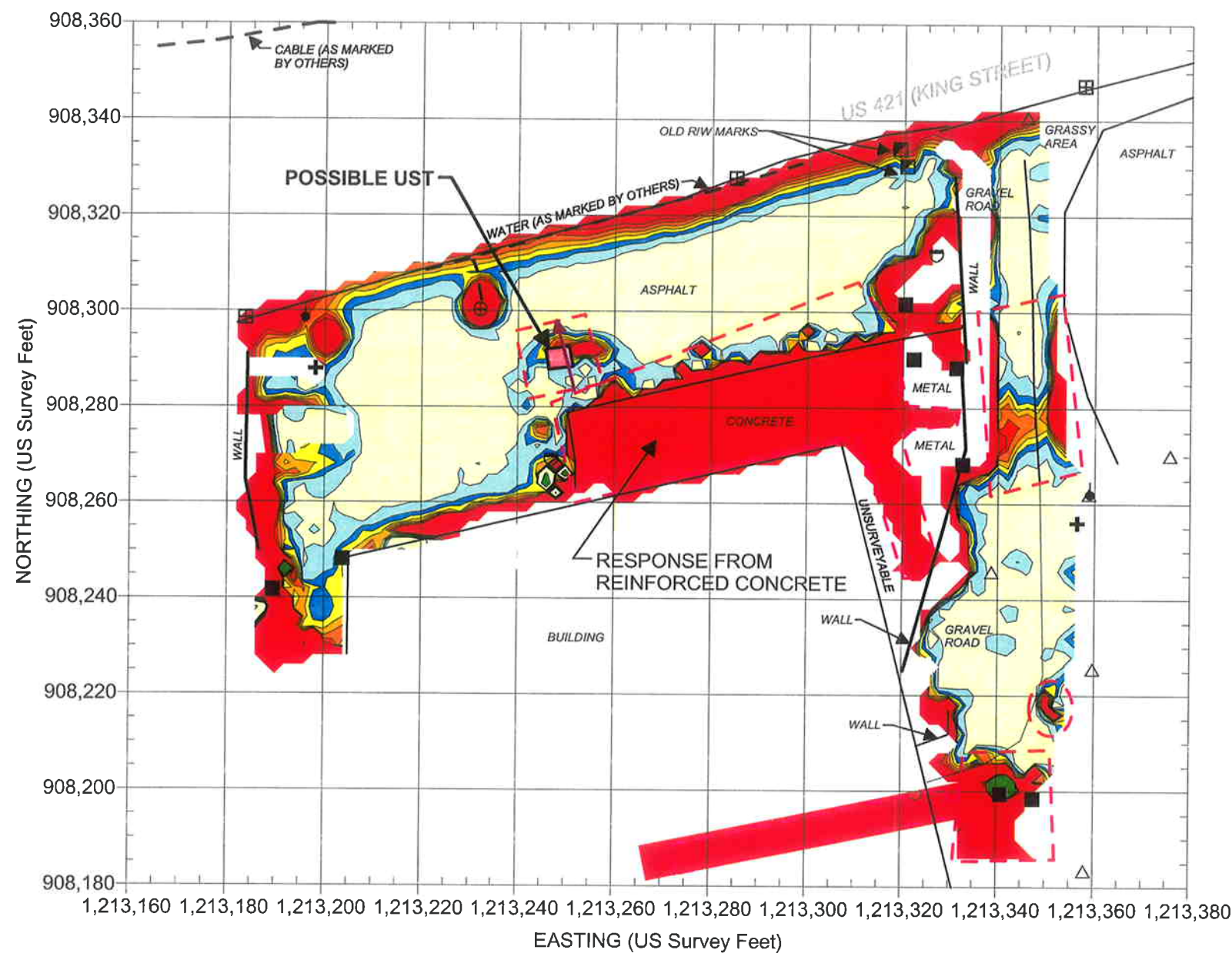


NC Department of Transportation
Geotechnical Engineering Unit

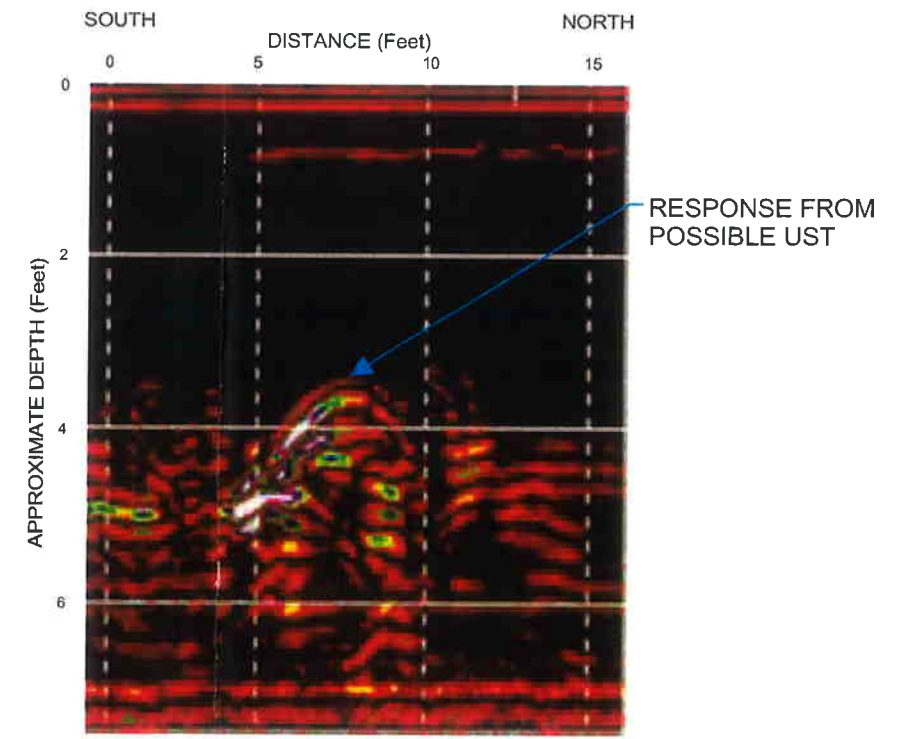
State Project No. U-4020
Watauga County, North Carolina

**PARCEL 43
PHOTOS OF POSSIBLE
UST LOCATION**

FIGURE 1



EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	GUY WIRE
	SIGN
	METALLIC OBJECT
	NCDOT MARKER
	UTILITY POLE
	STORMWATER GRATE
	UTILITY MANHOLE
	MONITORING WELL
	LIGHTPOLE
	GPR SURVEY AREA
	LOCATION OF GPR SURVEY LINE SHOWN
	APPROXIMATE LOCATION OF POSSIBLE UTILITY (SOME MARKED IN FIELD)
	APPROXIMATE LOCATION OF POSSIBLE BURIED UST AS MARKED IN FIELD
	APPROXIMATE LIMITS OF NCDOT PROJECT



Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as pipes and tanks. The EM data were collected on March 10, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on March 18, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

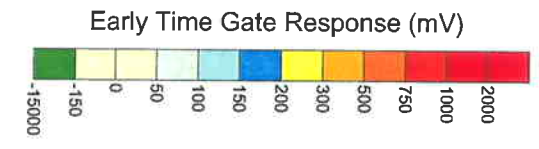
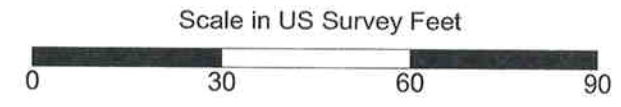
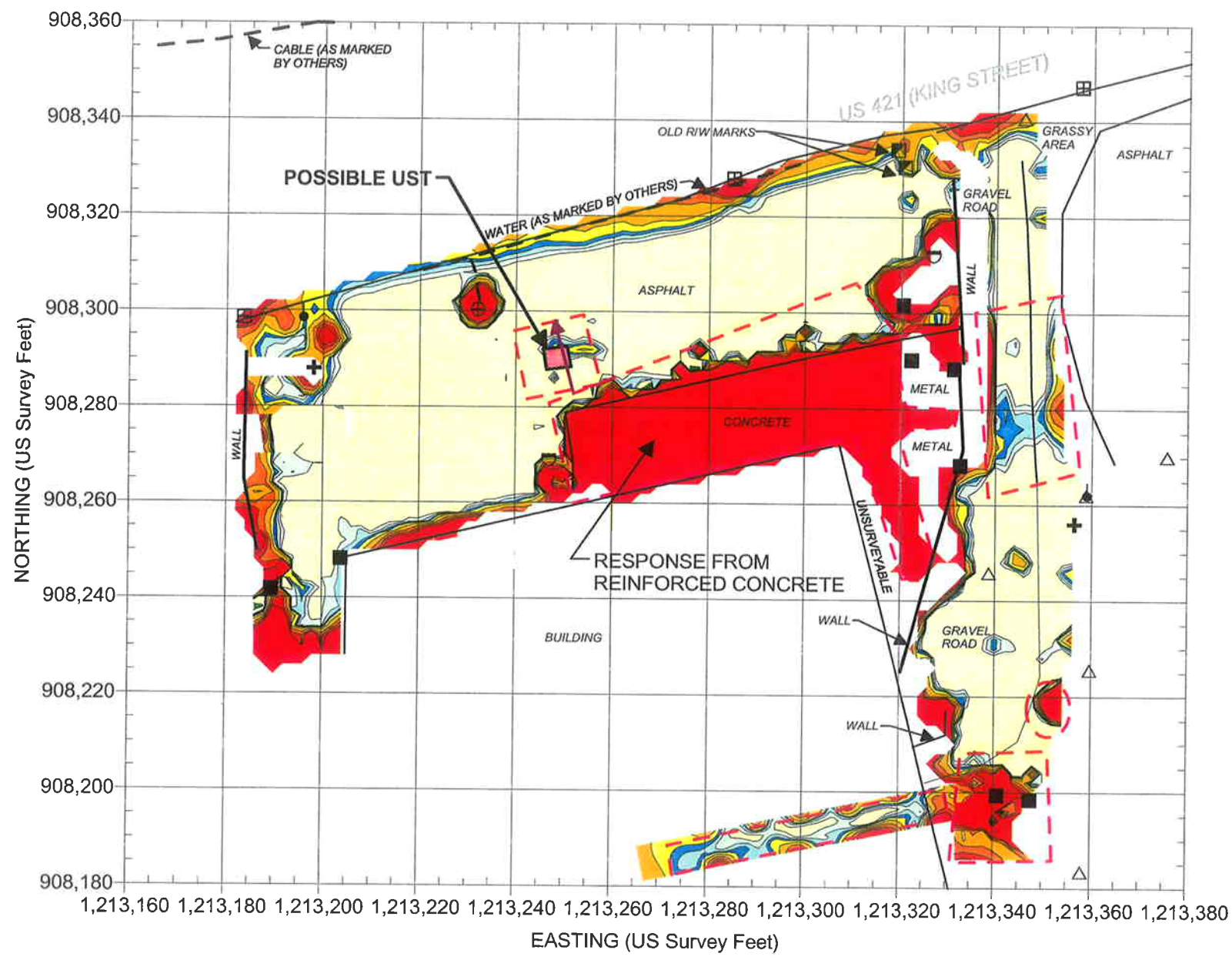


NC Department of Transportation
Geotechnical Engineering Unit

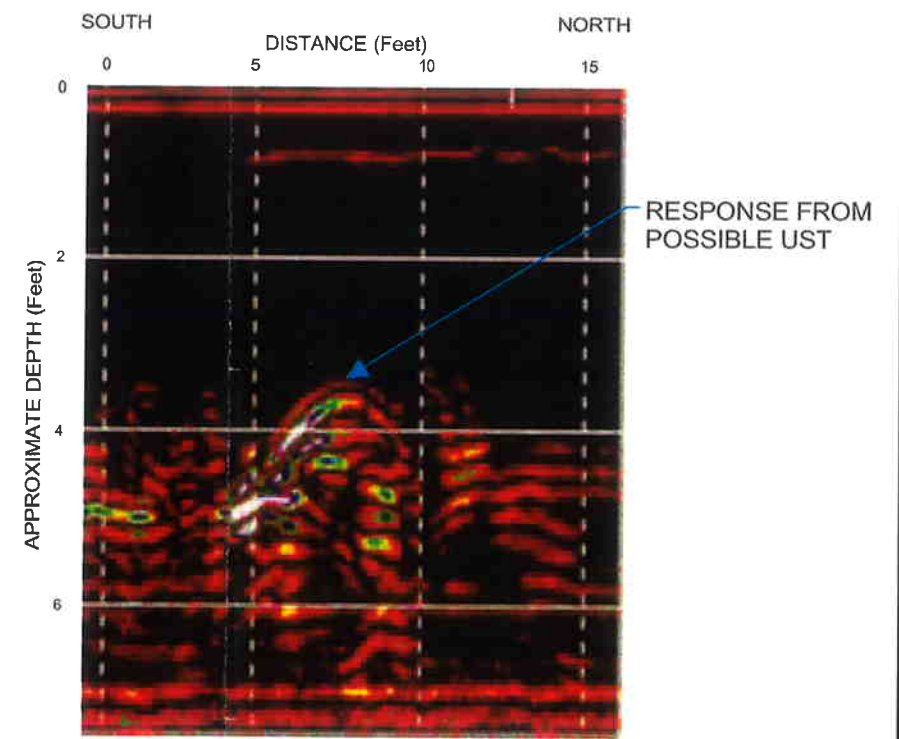
State Project No. U-4020
Watauga County, North Carolina

**PARCEL 43
EM61 DIFFERENTIAL
RESPONSE**

FIGURE 3



EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	GUY WIRE
	SIGN
	METALLIC OBJECT
	NCDOT MARKER
	UTILITY POLE
	STORMWATER GRATE
	UTILITY MANHOLE
	MONITORING WELL
	LIGHTPOLE
	GPR SURVEY AREA
	LOCATION OF GPR SURVEY LINE SHOWN
	APPROXIMATE LOCATION OF POSSIBLE UTILITY (SOME MARKED IN FIELD)
	APPROXIMATE LOCATION OF POSSIBLE BURIED UST AS MARKED IN FIELD
	APPROXIMATE LIMITS OF NCDOT PROJECT



Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on March 10, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on March 18, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	NC Department of Transportation Geotechnical Engineering Unit	PARCEL 43 EM61 EARLY TIME GATE RESPONSE FIGURE 2
	State Project No. U-4020 Watauga County, North Carolina	

Appendix C
Soil Boring Logs



BORING NUMBER 43-1

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5			0.3	1.5	[Pattern]	Brown, silty medium SAND, slightly moist, loose		0.0 - 2.5
2.5 - 5.0	100			1.4	[Pattern]	Medium grey, medium sandy SILT, slight loose, moist, compact		2.5 - 5.0
5.0 - 7.5				1.5	[Pattern]	Brown, medium sandy SILT, some clay, slightly moist, compact		5.0 - 7.5
7.5 - 8.0	80			0.9	[Pattern]	Orange/brown, silty fine SAND, slightly moist, loose		7.5 - 8.0
8.0 - 15.0						Refusal at 8.0 feet. Bottom of borehole at 8.0 feet.		8.0 - 15.0

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GFPJ

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/2/08
BORING COMPLETED: 4/2/08
TOTAL DEPTH: 8
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 4-6 feet for laboratory analysis.



BORING NUMBER 43-2

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5			0.3	1	[Pattern]	Grey/brown, fine sandy SILT, slightly moist, micaceous, compact		0.0 - 2.5
2.5 - 5.0	100			0.9	[Pattern]	Dark grey, medium sandy SILT, slightly moist, compact		2.5 - 5.0
5.0 - 7.5				1.1	[Pattern]	Brown/gray, silty fine SAND, slightly moist, compact		5.0 - 7.5
7.5 - 10.0	80			1.4	[Pattern]	Brown, medium SAND with some clay, slightly moist, compact		7.5 - 10.0
10.0 - 12.5	50			1.3	[Pattern]	Orange/dark grey, medium sandy SILT, slightly moist, compact, saturated at 12 ft		10.0 - 12.5
12.5 - 15.0						Bottom of borehole at 12.0 feet.		12.5 - 15.0

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GFPJ

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/2/08
BORING COMPLETED: 4/2/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet.
Sample collected from 7-10 feet for laboratory analysis.



BORING NUMBER 43-3

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's

JOB NUMBER: ROW-148 (43)

LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GDT

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5			0.3	1.2	[Pattern]	Orange/grey, medium sandy SILT, slightly moist, compact		0.0 - 2.5
2.5 - 5.0	100			1.2	[Pattern]	Orange/grey, medium sandy SILT, slightly moist, compact		2.5 - 5.0
5.0 - 7.5				2.1	[Pattern]	Orange/grey, medium sandy SILT, micaceous, slightly moist, compact		5.0 - 7.5
7.5 - 10.0	90			1.1	[Pattern]	Orange/brown, medium sandy SILT, slightly moist, compact		7.5 - 10.0
10.0 - 12.5	50			1.7	[Pattern]	Grey/orange, medium sandy SILT, very moist to saturated at 12 ft		10.0 - 12.5
12.5 - 15.0						Bottom of borehole at 12.0 feet.		12.5 - 15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/2/08
BORING COMPLETED: 4/2/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 5-7 feet for laboratory analysis.



BORING NUMBER 43-4

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5	100		0.3	1.1	[Pattern]	Brown, medium sandy SILT, slightly moist, compact		2.5
2.5 - 5.0				1	[Pattern]	Brown, medium sandy SILT, slightly moist, compact		5.0
5.0 - 7.5	80			1.1	[Pattern]	Orange/brown, medium sandy SILT, slightly moist, loose		7.5
7.5 - 10.0				1	[Pattern]	Orange/brown, medium sandy SILT, slightly moist, loose		10.0
10.0 - 12.5	50			1.8	[Pattern]	Brown, medium sandy SILT with some clay, slightly moist, compact		12.5
12.5 - 15.0						Bottom of borehole at 12.0 feet.		15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/2/08
BORING COMPLETED: 4/2/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 5-7 feet for laboratory analysis.



BORING NUMBER 43-5

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5			0.4	1.4		Brown, silty medium SAND, slightly moist, loose		0.0 - 2.5
2.5 - 5.0	100			1.2		Brown, medium sandy SILT with some clay and partially weathered rock, slightly moist to moist, compact		2.5 - 5.0
5.0 - 7.5				1.3		Brown, medium sandy SILT, slightly moist		5.0 - 7.5
7.5 - 10.0	80			0.9		Brown, medium sandy SILT with some clay, slightly moist, slightly compact		7.5 - 10.0
10.0 - 12.5	50			1.6		Partially weathered rock		10.0 - 12.5
12.5 - 15.0						Bottom of borehole at 12.0 feet.		12.5 - 15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/2/08
BORING COMPLETED: 4/2/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 5-7 feet for laboratory analysis.



BORING NUMBER 43-6

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's

JOB NUMBER: ROW-148 (43)

LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN_GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GDT

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Concrete surface cover		0.0
2.5	75		0.2	0.5		Brown, fine sandy SILT, slightly moist, slightly compact		2.5
5.0	100		0.5	0.7		Brown/dark grey, fine sandy SILT, slightly moist, slightly compact		2.5
						Dark grey, medium sandy SILT, saturated at 6 ft		5.0
						Bottom of borehole at 6.0 feet.		5.0
7.5								7.5
10.0								10.0
12.5								12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: Hand Auger
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 6
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 2-4 feet for laboratory analysis.



BORING NUMBER 43-7

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPFJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Concrete surface cover		0.0
			0.4	0.7		Brown, fine sandy SILT, slightly moist, loose		
2.5	100			0.7		Brown, medium sandy SILT, slightly moist, loose		2.5
				0.7		Grey, fine sandy SILT, saturated at 5 ft		
5.0						Bottom of borehole at 5.0 feet.		5.0
7.5								7.5
10.0								10.0
12.5								12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: Hand Auger
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 2-4 feet for laboratory analysis.



BORING NUMBER 43-8

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Concrete surface cover		0.0
0.5			0.5	0.7		Brown, medium sandy SILT, slightly moist, loose		
2.5	100					Brown, medium sandy SILT with some gravel, very moist to saturated at 4 ft		2.5
4.0				0.8		Bottom of borehole at 4.0 feet.		4.0
5.0								5.0
7.5								7.5
10.0								10.0
12.5								12.5
15.0								15.0

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPJ

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: Hand Auger
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Borehole hand-augered until ground water encountered at 4 feet. Sample collected from 2-4 feet for laboratory analysis.



BORING NUMBER 43-9

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GDT

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Gravel backfill material		0.0
0.0 - 2.5	75		0	0.4		Dark grey, medium sandy SILT, moist, petroleum odor		0.0 - 2.5
2.5 - 4.0				1.4		Orange/grey, sandy SILT, loose, petroleum odor, saturated at 4 ft		2.5 - 4.0
4.0 - 15.0						Bottom of borehole at 4.0 feet.		4.0 - 15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: Hand Auger
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered until ground water encountered at 4 feet. Sample collected from 2-4 feet for laboratory analysis.



BORING NUMBER 43-10

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's

JOB NUMBER: ROW-148 (43)

LOCATION: Boone, North Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0						Concrete surface cover		0
			0.3	0.8		Brown, silty medium SAND, slightly moist, loose		
				0.8		Brown, silty medium SAND, slightly moist, loose		
5				0.9		Partially weathered rock		5
				0.7				
10				0.7				10
				1.3				
15				0.8		Green/ gray with black streaking, fine sandy SILT, slightly compact, saturated at 15 ft		15
						Bottom of borehole at 15.0 feet.		
20								20

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\SIBORING LOGS\ROW-148 (43).GPJ

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 15
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 7-10 feet for laboratory analysis.



BORING NUMBER 43-11

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's

JOB NUMBER: ROW-148 (43)

LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0						Concrete surface cover		0
0.5			0.5	0.7		Brown, silty medium SAND, slightly moist, loose		
100						Brown, silty medium SAND with some partially weathered rock, slightly moist, loose		
5						Brown, silty medium SAND with some partially weathered rock and clay, slightly moist, loose		5
50						Brown, medium sandy SILT, some clay and partially weathered rock, moist to wet, slightly compact		
10								10
75								
15								15
100								
						Bottom of borehole at 16.0 feet.		
20								20

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: 6620DT / Geoprobe
SAMPLING METHOD: DPT Sleeves
LOGGED BY: CM/DG
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 16
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet.
 Sample collected from 7-10 feet for laboratory analysis.



BORING NUMBER 43-A

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSA's
JOB NUMBER: ROW-148 (43)
LOCATION: Boone, North Carolina

LOG OF BORING - HART HICKMAN.GDT - 5/29/08 09:45 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSA\BORING LOGS\ROW-148 (43).GPFJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0			0.3	4.9	(SW) Red/Brown, medium SAND, dry		0.0	
2.5	100			3.7			2.5	
5.0				2.9	(CL-ML) Grey/Brown, silty CLAY, saturated		5.0	
7.5	30			2.1			7.5	
10.0					(ML) Brown, fine sandy SILT, saturated		10.0	
12.5	30				Bottom of borehole at 12.0 feet.		12.5	
15.0							15.0	

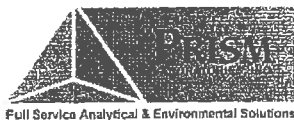
DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 6620DT / Geoprobe
SAMPLING METHOD: Hand Auger
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/10/08
BORING COMPLETED: 4/10/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered until ground water encountered at 4 feet. Sample collected from 2-4 feet for laboratory analysis.

Appendix D

Laboratory Analytical Report



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-1 (4-6')
 Prism Sample ID: 210607
 COC Group: G0408148
 Time Collected: 04/02/08 15:25
 Time Submitted: 04/03/08 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.4	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.7	2.1	1	8015B	04/12/08 12:18	jvogel	Q31718
Sample Preparation:			50.25 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	79	48 - 130	
Sample Weight Determination									
Weight 1	5.60	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.31	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	3.9	50	8015B	04/11/08 15:55	wbradley	Q31685
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	89	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-2 (7-10')
 Prism Sample ID: 210608
 COC Group: G0408148
 Time Collected: 04/02/08 15:40
 Time Submitted: 04/03/08 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.7	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.6	2.1	1	8015B	04/12/08 11:07	jvogel	Q31718
Sample Preparation:			49.84 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	92	48 - 130	
Sample Weight Determination									
Weight 1	5.57	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.30	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	04/11/08 16:26	wbradley	Q31685
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	103	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-3 (5-7")
 Prism Sample ID: 210609
 COC Group: G0408148
 Time Collected: 04/02/08 15:50
 Time Submitted: 04/03/08 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	84.7	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.2	2.0	1	8015B	04/14/08 15:51	jvogel	Q31718
Sample Preparation:			50.29 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	72	48 - 130	
Sample Weight Determination									
Weight 1	6.11	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.51	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015B	04/11/08 17:42	wbradley	Q31685
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	76	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-4 (5-7")
 Prism Sample ID: 210610
 COC Group: G0408148
 Time Collected: 04/02/08 16:05
 Time Submitted: 04/03/08 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	89.1	%			1	SM2540 G	04/08/08 12:35	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	7.9	1.9	1	8015B	04/12/08 12:55	jvogel	Q31718
Sample Preparation:			50.01 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	82	48 - 130	
<u>Sample Weight Determination</u>									
Weight 1	5.17	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.53	g			1	GRO	04/14/08 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	3.5	50	8015B	04/11/08 18:14	wbradley	Q31685
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	89	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-5 (5-7')
 Prism Sample ID: 210611
 COC Group: G0408148
 Time Collected: 04/02/08 16:15
 Time Submitted: 04/03/08 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.3	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.0	2.0	1	8015B	04/14/08 15:15	jvogel	Q31718
Sample Preparation:			49.84 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328
			Surrogate				% Recovery	Control Limits	
			o-Terphenyl				58	48 - 130	
Sample Weight Determination									
Weight 1	6.11	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	6.11	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/11/08 18:46	wbradley	Q31685
			Surrogate				% Recovery	Control Limits	
			aaa-TFT				73	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit
 Values are reported down to the reporting limit only. No J-Flags applied.
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-6 (2-4')
 Prism Sample ID: 210697
 COC Group: G0408173
 Time Collected: 04/03/08 10:50
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	74.7	%			1	SM2540 G	04/09/08 14:10	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	6.68	g			1	5035	04/08/08 0:00	lbrown	
Weight Bisulfate 2	6.33	g			1	5035	04/08/08 0:00	lbrown	
Weight Methanol	5.28	g			1	5035	04/08/08 0:00	lbrown	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0050	0.00059	1	8260B	04/08/08 17:50	lwitry	Q31548
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0050	0.00036	1	8260B	04/08/08 17:50	lwitry	Q31548
1,1,2-Trichloroethane	BRL	mg/kg	0.0050	0.00053	1	8260B	04/08/08 17:50	lwitry	Q31548
1,1-Dichloroethane	BRL	mg/kg	0.0050	0.00057	1	8260B	04/08/08 17:50	lwitry	Q31548
1,1-Dichloroethene	BRL	mg/kg	0.0050	0.00086	1	8260B	04/08/08 17:50	lwitry	Q31548
1,1-Dichloropropene	BRL	mg/kg	0.0050	0.00059	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0050	0.00057	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2,3-Trichloropropane	BRL	mg/kg	0.0050	0.00067	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0050	0.00065	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0050	0.00025	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0050	0.00062	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2-Dichlorobenzene	BRL	mg/kg	0.0050	0.00032	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2-Dichloroethane	BRL	mg/kg	0.0050	0.00056	1	8260B	04/08/08 17:50	lwitry	Q31548
1,2-Dichloropropane	BRL	mg/kg	0.0050	0.0012	1	8260B	04/08/08 17:50	lwitry	Q31548
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0050	0.00042	1	8260B	04/08/08 17:50	lwitry	Q31548
1,3-Dichlorobenzene	BRL	mg/kg	0.0050	0.00033	1	8260B	04/08/08 17:50	lwitry	Q31548
1,3-Dichloropropane	BRL	mg/kg	0.0050	0.00021	1	8260B	04/08/08 17:50	lwitry	Q31548
1,4-Dichlorobenzene	BRL	mg/kg	0.0050	0.00064	1	8260B	04/08/08 17:50	lwitry	Q31548
2,2-Dichloropropane	BRL	mg/kg	0.0050	0.00072	1	8260B	04/08/08 17:50	lwitry	Q31548
2-Chlorotoluene	BRL	mg/kg	0.0050	0.00028	1	8260B	04/08/08 17:50	lwitry	Q31548

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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-6 (2-4')
 Prism Sample ID: 210697
 COC Group: G0408173
 Time Collected: 04/03/08 10:50
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.050	0.0043	1	8260B	04/08/08 17:50	lwitry	Q31548
4-Chlorotoluene	BRL	mg/kg	0.0050	0.00037	1	8260B	04/08/08 17:50	lwitry	Q31548
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.050	0.0052	1	8260B	04/08/08 17:50	lwitry	Q31548
Acetone	BRL	mg/kg	0.050	0.015	1	8260B	04/08/08 17:50	lwitry	Q31548
Benzene	BRL	mg/kg	0.0030	0.00042	1	8260B	04/08/08 17:50	lwitry	Q31548
Bromobenzene	BRL	mg/kg	0.0050	0.00064	1	8260B	04/08/08 17:50	lwitry	Q31548
Bromochloromethane	BRL	mg/kg	0.0050	0.00041	1	8260B	04/08/08 17:50	lwitry	Q31548
Bromodichloromethane	BRL	mg/kg	0.0050	0.00054	1	8260B	04/08/08 17:50	lwitry	Q31548
Bromoform	BRL	mg/kg	0.0050	0.00045	1	8260B	04/08/08 17:50	lwitry	Q31548
Bromomethane	BRL	mg/kg	0.010	0.0011	1	8260B	04/08/08 17:50	lwitry	Q31548
Carbon tetrachloride	BRL	mg/kg	0.0050	0.00033	1	8260B	04/08/08 17:50	lwitry	Q31548
Chlorobenzene	BRL	mg/kg	0.0050	0.00051	1	8260B	04/08/08 17:50	lwitry	Q31548
Chlorodibromomethane	BRL	mg/kg	0.0050	0.00046	1	8260B	04/08/08 17:50	lwitry	Q31548
Chloroethane	BRL	mg/kg	0.010	0.0017	1	8260B	04/08/08 17:50	lwitry	Q31548
Chloroform	BRL	mg/kg	0.0050	0.00083	1	8260B	04/08/08 17:50	lwitry	Q31548
Chloromethane	BRL	mg/kg	0.0050	0.0012	1	8260B	04/08/08 17:50	lwitry	Q31548
cis-1,2-Dichloroethene	BRL	mg/kg	0.0050	0.0008	1	8260B	04/08/08 17:50	lwitry	Q31548
cis-1,3-Dichloropropene	BRL	mg/kg	0.0050	0.00066	1	8260B	04/08/08 17:50	lwitry	Q31548
Dichlorodifluoromethane	BRL	mg/kg	0.0050	0.0014	1	8260B	04/08/08 17:50	lwitry	Q31548
Ethylbenzene	BRL	mg/kg	0.0050	0.00023	1	8260B	04/08/08 17:50	lwitry	Q31548
Isopropyl ether (IPE)	BRL	mg/kg	0.0050	0.00046	1	8260B	04/08/08 17:50	lwitry	Q31548
Isopropylbenzene	BRL	mg/kg	0.0050	0.00029	1	8260B	04/08/08 17:50	lwitry	Q31548
m,p-Xylenes	BRL	mg/kg	0.010	0.00082	1	8260B	04/08/08 17:50	lwitry	Q31548
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.10	0.015	1	8260B	04/08/08 17:50	lwitry	Q31548
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.010	0.00042	1	8260B	04/08/08 17:50	lwitry	Q31548
Methylene chloride	BRL	mg/kg	0.0050	0.00082	1	8260B	04/08/08 17:50	lwitry	Q31548
n-Butylbenzene	BRL	mg/kg	0.0050	0.00036	1	8260B	04/08/08 17:50	lwitry	Q31548

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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-6 (2-4')
 Prism Sample ID: 210697
 COC Group: G0408173
 Time Collected: 04/03/08 10:50
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0050	0.00033	1	8260B	04/08/08 17:50	lwitry	Q31548
Naphthalene	BRL	mg/kg	0.010	0.0006	1	8260B	04/08/08 17:50	lwitry	Q31548
o-Xylene	BRL	mg/kg	0.0050	0.00021	1	8260B	04/08/08 17:50	lwitry	Q31548
p-Isopropyltoluene	BRL	mg/kg	0.0050	0.0004	1	8260B	04/08/08 17:50	lwitry	Q31548
sec-Butylbenzene	BRL	mg/kg	0.0050	0.00034	1	8260B	04/08/08 17:50	lwitry	Q31548
Styrene	BRL	mg/kg	0.0050	0.00056	1	8260B	04/08/08 17:50	lwitry	Q31548
tert-Butylbenzene	BRL	mg/kg	0.0050	0.00042	1	8260B	04/08/08 17:50	lwitry	Q31548
Tetrachloroethene	BRL	mg/kg	0.0050	0.00045	1	8260B	04/08/08 17:50	lwitry	Q31548
Toluene	BRL	mg/kg	0.0050	0.00037	1	8260B	04/08/08 17:50	lwitry	Q31548
trans-1,2-Dichloroethene	BRL	mg/kg	0.0050	0.00064	1	8260B	04/08/08 17:50	lwitry	Q31548
trans-1,3-Dichloropropene	BRL	mg/kg	0.0050	0.00059	1	8260B	04/08/08 17:50	lwitry	Q31548
Trichloroethene	BRL	mg/kg	0.0050	0.00073	1	8260B	04/08/08 17:50	lwitry	Q31548
Trichlorofluoromethane	BRL	mg/kg	0.0050	0.00089	1	8260B	04/08/08 17:50	lwitry	Q31548
Vinyl acetate	BRL	mg/kg	0.025	0.0014	1	8260B	04/08/08 17:50	lwitry	Q31548
Vinyl chloride	BRL	mg/kg	0.0050	0.00087	1	8260B	04/08/08 17:50	lwitry	Q31548

Surrogate	% Recovery	Control Limits
Toluene-d8	106	81 - 128
Dibromofluoromethane	93	67 - 143
Bromofluorobenzene	123	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease	BRL	mg/kg	47	47	1	9071A	04/17/08 14:30	smanivanh	Q31844
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.2	2.2	1	8015B	04/12/08 14:42	lvogel	Q31718
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 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-6 (2-4')
 Prism Sample ID: 210697
 COC Group: G0408173
 Time Collected: 04/03/08 10:50
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				50.62 g	/	2 mL	3550B	04/11/08 9:30	jvoegel P21328

Surrogate	% Recovery	Control Limits
o-Terphenyl	104	48 - 130

Sample Weight Determination

Weight 1	5.96	g		1	GRO	04/17/08 0:00	athao
Weight 2	11.23	g		1	GRO	04/17/08 0:00	athao

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	4.2	50	8015B	04/11/08 20:52	wbradley Q31685
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Surrogate	% Recovery	Control Limits
aaa-TFT	98	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

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Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

04/25/08

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 Transportation
 Attn: David Graham
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 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-7 (2-4)
 Prism Sample ID: 210698
 COC Group: G0408173
 Time Collected: 04/03/08 11:20
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	74.8	%			1	SM2540 G	04/09/08 14:10	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	6.28	g			1	5035	04/08/08 0:00	lbrown	
Weight Bisulfate 2	5.98	g			1	5035	04/08/08 0:00	lbrown	
Weight Methanol	5.37	g			1	5035	04/08/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0053	0.00063	1	8260B	04/08/08 18:34	lwitry	Q31548
1,1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0053	0.00038	1	8260B	04/08/08 18:34	lwitry	Q31548
1,1,2-Trichloroethane	BRL	mg/kg	0.0053	0.00056	1	8260B	04/08/08 18:34	lwitry	Q31548
1,1-Dichloroethane	BRL	mg/kg	0.0053	0.00061	1	8260B	04/08/08 18:34	lwitry	Q31548
1,1-Dichloroethene	BRL	mg/kg	0.0053	0.00092	1	8260B	04/08/08 18:34	lwitry	Q31548
1,1-Dichloropropene	BRL	mg/kg	0.0053	0.00063	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0053	0.00061	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2,3-Trichloropropane	BRL	mg/kg	0.0053	0.00071	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0053	0.00069	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0053	0.00027	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0053	0.00066	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2-Dichlorobenzene	BRL	mg/kg	0.0053	0.00034	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2-Dichloroethane	BRL	mg/kg	0.0053	0.0006	1	8260B	04/08/08 18:34	lwitry	Q31548
1,2-Dichloropropane	BRL	mg/kg	0.0053	0.0013	1	8260B	04/08/08 18:34	lwitry	Q31548
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0053	0.00045	1	8260B	04/08/08 18:34	lwitry	Q31548
1,3-Dichlorobenzene	BRL	mg/kg	0.0053	0.00035	1	8260B	04/08/08 18:34	lwitry	Q31548
1,3-Dichloropropane	BRL	mg/kg	0.0053	0.00022	1	8260B	04/08/08 18:34	lwitry	Q31548
1,4-Dichlorobenzene	BRL	mg/kg	0.0053	0.00068	1	8260B	04/08/08 18:34	lwitry	Q31548
2,2-Dichloropropane	BRL	mg/kg	0.0053	0.00077	1	8260B	04/08/08 18:34	lwitry	Q31548
2-Chlorotoluene	BRL	mg/kg	0.0053	0.0003	1	8260B	04/08/08 18:34	lwitry	Q31548

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Laboratory Report

04/25/08

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 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-7 (2-4')
 Prism Sample ID: 210698
 COC Group: G0408173
 Time Collected: 04/03/08 11:20
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.053	0.0046	1	8260B	04/08/08 18:34	lwitry	Q31548
4-Chlorotoluene	BRL	mg/kg	0.0053	0.00039	1	8260B	04/08/08 18:34	lwitry	Q31548
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.053	0.0055	1	8260B	04/08/08 18:34	lwitry	Q31548
Acetone	0.077	mg/kg	0.053	0.016	1	8260B	04/08/08 18:34	lwitry	Q31548
Benzene	BRL	mg/kg	0.0032	0.00045	1	8260B	04/08/08 18:34	lwitry	Q31548
Bromobenzene	BRL	mg/kg	0.0053	0.00068	1	8260B	04/08/08 18:34	lwitry	Q31548
Bromochloromethane	BRL	mg/kg	0.0053	0.00044	1	8260B	04/08/08 18:34	lwitry	Q31548
Bromodichloromethane	BRL	mg/kg	0.0053	0.00057	1	8260B	04/08/08 18:34	lwitry	Q31548
Bromoform	BRL	mg/kg	0.0053	0.00048	1	8260B	04/08/08 18:34	lwitry	Q31548
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/08/08 18:34	lwitry	Q31548
Carbon tetrachloride	BRL	mg/kg	0.0053	0.00035	1	8260B	04/08/08 18:34	lwitry	Q31548
Chlorobenzene	BRL	mg/kg	0.0053	0.00054	1	8260B	04/08/08 18:34	lwitry	Q31548
Chlorodibromomethane	BRL	mg/kg	0.0053	0.00049	1	8260B	04/08/08 18:34	lwitry	Q31548
Chloroethane	BRL	mg/kg	0.011	0.0018	1	8260B	04/08/08 18:34	lwitry	Q31548
Chloroform	BRL	mg/kg	0.0053	0.00088	1	8260B	04/08/08 18:34	lwitry	Q31548
Chloromethane	BRL	mg/kg	0.0053	0.0013	1	8260B	04/08/08 18:34	lwitry	Q31548
cis-1,2-Dichloroethene	BRL	mg/kg	0.0053	0.00085	1	8260B	04/08/08 18:34	lwitry	Q31548
cis-1,3-Dichloropropene	BRL	mg/kg	0.0053	0.0007	1	8260B	04/08/08 18:34	lwitry	Q31548
Dichlorodifluoromethane	BRL	mg/kg	0.0053	0.0015	1	8260B	04/08/08 18:34	lwitry	Q31548
Ethylbenzene	BRL	mg/kg	0.0053	0.00024	1	8260B	04/08/08 18:34	lwitry	Q31548
Isopropyl ether (IPE)	BRL	mg/kg	0.0053	0.00049	1	8260B	04/08/08 18:34	lwitry	Q31548
Isopropylbenzene	BRL	mg/kg	0.0053	0.00031	1	8260B	04/08/08 18:34	lwitry	Q31548
m,p-Xylenes	BRL	mg/kg	0.011	0.00087	1	8260B	04/08/08 18:34	lwitry	Q31548
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/08/08 18:34	lwitry	Q31548
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00045	1	8260B	04/08/08 18:34	lwitry	Q31548
Methylene chloride	BRL	mg/kg	0.0053	0.00087	1	8260B	04/08/08 18:34	lwitry	Q31548
n-Butylbenzene	BRL	mg/kg	0.0053	0.00038	1	8260B	04/08/08 18:34	lwitry	Q31548

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-7 (2-4')
 Prism Sample ID: 210698
 COC Group: G0408173
 Time Collected: 04/03/08 11:20
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0053	0.00035	1	8260B	04/08/08 18:34	lwitry	Q31548
Naphthalene	BRL	mg/kg	0.011	0.00064	1	8260B	04/08/08 18:34	lwitry	Q31548
o-Xylene	BRL	mg/kg	0.0053	0.00022	1	8260B	04/08/08 18:34	lwitry	Q31548
p-Isopropyltoluene	BRL	mg/kg	0.0053	0.00043	1	8260B	04/08/08 18:34	lwitry	Q31548
sec-Butylbenzene	BRL	mg/kg	0.0053	0.00036	1	8260B	04/08/08 18:34	lwitry	Q31548
Styrene	BRL	mg/kg	0.0053	0.0006	1	8260B	04/08/08 18:34	lwitry	Q31548
tert-Butylbenzene	BRL	mg/kg	0.0053	0.00045	1	8260B	04/08/08 18:34	lwitry	Q31548
Tetrachloroethene	0.0068	mg/kg	0.0053	0.00048	1	8260B	04/08/08 18:34	lwitry	Q31548
Toluene	BRL	mg/kg	0.0053	0.00039	1	8260B	04/08/08 18:34	lwitry	Q31548
trans-1,2-Dichloroethene	BRL	mg/kg	0.0053	0.00068	1	8260B	04/08/08 18:34	lwitry	Q31548
trans-1,3-Dichloropropene	BRL	mg/kg	0.0053	0.00063	1	8260B	04/08/08 18:34	lwitry	Q31548
Trichloroethene	BRL	mg/kg	0.0053	0.00078	1	8260B	04/08/08 18:34	lwitry	Q31548
Trichlorofluoromethane	BRL	mg/kg	0.0053	0.00095	1	8260B	04/08/08 18:34	lwitry	Q31548
Vinyl acetate	BRL	mg/kg	0.027	0.0015	1	8260B	04/08/08 18:34	lwitry	Q31548
Vinyl chloride	BRL	mg/kg	0.0053	0.00093	1	8260B	04/08/08 18:34	lwitry	Q31548

Surrogate	% Recovery	Control Limits
Toluene-d8	102	81 - 128
Dibromofluoromethane	92	67 - 143
Bromofluorobenzene	103	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease BRL mg/kg 47 47 1 9071A 04/17/08 14:30 smanivanh Q31844

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 9.3 2.3 1 8015B 04/12/08 15:18 jvogel Q31718

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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-7 (2-4')
 Prism Sample ID: 210698
 COC Group: G0408173
 Time Collected: 04/03/08 11:20
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				49.86 g	/	2 mL	3550B	04/11/08 9:30	jvogel P21328

Surrogate	% Recovery	Control Limits
o-Terphenyl	76	48 - 130

Sample Weight Determination

Weight 1	5.40	g		1	GRO	04/17/08 0:00	athao
Weight 2	5.84	g		1	GRO	04/17/08 0:00	athao

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	4.2	50	8015B	04/11/08 21:23	wbradley	Q31685
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Surrogate	% Recovery	Control Limits
aaa-TFT	97	55 - 129

Sample Comment(s):

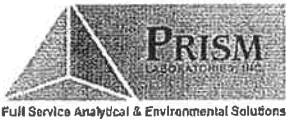
BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-8 (2-4')
 Prism Sample ID: 210699
 COC Group: G0408173
 Time Collected: 04/03/08 11:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.3	%			1	SM2540 G	04/09/08 14:10	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	5.20	g			1	5035	04/23/08 0:00	athao	
Weight Bisulfate 2	6.26	g			1	5035	04/23/08 0:00	athao	
Weight Methanol	6.44	g			1	5035	04/23/08 0:00	athao	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0055	0.00065	1	8260B	04/08/08 19:18	Iwity	Q31548
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0055	0.0004	1	8260B	04/08/08 19:18	Iwity	Q31548
1,1,2-Trichloroethane	BRL	mg/kg	0.0055	0.00058	1	8260B	04/08/08 19:18	Iwity	Q31548
1,1-Dichloroethane	BRL	mg/kg	0.0055	0.00063	1	8260B	04/08/08 19:18	Iwity	Q31548
1,1-Dichloroethene	BRL	mg/kg	0.0055	0.00095	1	8260B	04/08/08 19:18	Iwity	Q31548
1,1-Dichloropropene	BRL	mg/kg	0.0055	0.00065	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0055	0.00063	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2,3-Trichloropropane	BRL	mg/kg	0.0055	0.00074	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0055	0.00072	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0055	0.00028	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0055	0.00068	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2-Dichlorobenzene	BRL	mg/kg	0.0055	0.00035	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2-Dichloroethane	BRL	mg/kg	0.0055	0.00062	1	8260B	04/08/08 19:18	Iwity	Q31548
1,2-Dichloropropane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/08/08 19:18	Iwity	Q31548
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/08/08 19:18	Iwity	Q31548
1,3-Dichlorobenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/08/08 19:18	Iwity	Q31548
1,3-Dichloropropane	BRL	mg/kg	0.0055	0.00023	1	8260B	04/08/08 19:18	Iwity	Q31548
1,4-Dichlorobenzene	BRL	mg/kg	0.0055	0.0007	1	8260B	04/08/08 19:18	Iwity	Q31548
2,2-Dichloropropane	BRL	mg/kg	0.0055	0.00079	1	8260B	04/08/08 19:18	Iwity	Q31548
2-Chlorotoluene	BRL	mg/kg	0.0055	0.00031	1	8260B	04/08/08 19:18	Iwity	Q31548

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-8 (2-4')
 Prism Sample ID: 210699
 COC Group: G0408173
 Time Collected: 04/03/08 11:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.055	0.0047	1	8260B	04/08/08 19:18	lwitry	Q31548
4-Chlorotoluene	BRL	mg/kg	0.0055	0.00041	1	8260B	04/08/08 19:18	lwitry	Q31548
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.055	0.0057	1	8260B	04/08/08 19:18	lwitry	Q31548
Acetone	0.11	mg/kg	0.055	0.016	1	8260B	04/08/08 19:18	lwitry	Q31548
Benzene	BRL	mg/kg	0.0033	0.00046	1	8260B	04/08/08 19:18	lwitry	Q31548
Bromobenzene	BRL	mg/kg	0.0055	0.0007	1	8260B	04/08/08 19:18	lwitry	Q31548
Bromochloromethane	BRL	mg/kg	0.0055	0.00045	1	8260B	04/08/08 19:18	lwitry	Q31548
Bromodichloromethane	BRL	mg/kg	0.0055	0.00059	1	8260B	04/08/08 19:18	lwitry	Q31548
Bromoform	BRL	mg/kg	0.0055	0.0005	1	8260B	04/08/08 19:18	lwitry	Q31548
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/08/08 19:18	lwitry	Q31548
Carbon tetrachloride	BRL	mg/kg	0.0055	0.00036	1	8260B	04/08/08 19:18	lwitry	Q31548
Chlorobenzene	BRL	mg/kg	0.0055	0.00056	1	8260B	04/08/08 19:18	lwitry	Q31548
Chlorodibromomethane	BRL	mg/kg	0.0055	0.00051	1	8260B	04/08/08 19:18	lwitry	Q31548
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/08/08 19:18	lwitry	Q31548
Chloroform	BRL	mg/kg	0.0055	0.00091	1	8260B	04/08/08 19:18	lwitry	Q31548
Chloromethane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/08/08 19:18	lwitry	Q31548
cis-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.00088	1	8260B	04/08/08 19:18	lwitry	Q31548
cis-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00073	1	8260B	04/08/08 19:18	lwitry	Q31548
Dichlorodifluoromethane	BRL	mg/kg	0.0055	0.0015	1	8260B	04/08/08 19:18	lwitry	Q31548
Ethylbenzene	BRL	mg/kg	0.0055	0.00025	1	8260B	04/08/08 19:18	lwitry	Q31548
Isopropyl ether (IPE)	BRL	mg/kg	0.0055	0.00051	1	8260B	04/08/08 19:18	lwitry	Q31548
Isopropylbenzene	BRL	mg/kg	0.0055	0.00032	1	8260B	04/08/08 19:18	lwitry	Q31548
m,p-Xylenes	BRL	mg/kg	0.011	0.0009	1	8260B	04/08/08 19:18	lwitry	Q31548
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/08/08 19:18	lwitry	Q31548
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00046	1	8260B	04/08/08 19:18	lwitry	Q31548
Methylene chloride	BRL	mg/kg	0.0055	0.0009	1	8260B	04/08/08 19:18	lwitry	Q31548
n-Butylbenzene	BRL	mg/kg	0.0055	0.0004	1	8260B	04/08/08 19:18	lwitry	Q31548

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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-8 (2-4')
 Prism Sample ID: 210699
 COC Group: G0408173
 Time Collected: 04/03/08 11:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/08/08 19:18	lwitry	Q31548
Naphthalene	BRL	mg/kg	0.011	0.00066	1	8260B	04/08/08 19:18	lwitry	Q31548
o-Xylene	BRL	mg/kg	0.0055	0.00023	1	8260B	04/08/08 19:18	lwitry	Q31548
p-Isopropyltoluene	BRL	mg/kg	0.0055	0.00044	1	8260B	04/08/08 19:18	lwitry	Q31548
sec-Butylbenzene	BRL	mg/kg	0.0055	0.00037	1	8260B	04/08/08 19:18	lwitry	Q31548
Styrene	BRL	mg/kg	0.0055	0.00062	1	8260B	04/08/08 19:18	lwitry	Q31548
tert-Butylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/08/08 19:18	lwitry	Q31548
Tetrachloroethene	0.011	mg/kg	0.0055	0.0005	1	8260B	04/08/08 19:18	lwitry	Q31548
Toluene	BRL	mg/kg	0.0055	0.00041	1	8260B	04/08/08 19:18	lwitry	Q31548
trans-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.0007	1	8260B	04/08/08 19:18	lwitry	Q31548
trans-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00065	1	8260B	04/08/08 19:18	lwitry	Q31548
Trichloroethene	BRL	mg/kg	0.0055	0.0008	1	8260B	04/08/08 19:18	lwitry	Q31548
Trichlorofluoromethane	BRL	mg/kg	0.0055	0.00098	1	8260B	04/08/08 19:18	lwitry	Q31548
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/08/08 19:18	lwitry	Q31548
Vinyl chloride	BRL	mg/kg	0.0055	0.00096	1	8260B	04/08/08 19:18	lwitry	Q31548

Surrogate	% Recovery	Control Limits
Toluene-d8	105	81 - 128
Dibromofluoromethane	94	67 - 143
Bromofluorobenzene	105	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease BRL mg/kg 40 40 1 9071A 04/17/08 14:30 smanivanh Q31844

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 7.9 1.9 1 8015B 04/12/08 15:53 jvogel Q31718

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NC Certification No. 402
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-8 (2-4*)
 Prism Sample ID: 210699
 COC Group: G0408173
 Time Collected: 04/03/08 11:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				50.46 g	/	2 mL	3550B	04/11/08 9:30	jvogel P21328

Surrogate	% Recovery	Control Limits
o-Terphenyl	78	48 - 130

Sample Weight Determination

Weight 1	5.36	g		1	GRO	04/08/08 0:00	lbrown
Weight 2	6.31	g		1	GRO	04/08/08 0:00	lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/11/08 21:55	wbradley	Q31685
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Surrogate	% Recovery	Control Limits
aaa-TFT	81	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-9 (2-4')
 Prism Sample ID: 210700
 COC Group: G0408173
 Time Collected: 04/03/08 13:05
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.3	%			1	SM2540 G	04/09/08 14:10	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.40	g			1	5035	04/08/08 0:00	lbrown	
Weight Bisulfate 2	5.70	g			1	5035	04/08/08 0:00	lbrown	
Weight Methanol	6.58	g			1	5035	04/08/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0059	0.0007	1	8260B	04/10/08 6:01	lwitry	Q31593
1,1,1,2-Tetrachloroethane	BRL	mg/kg	0.0059	0.00043	1	8260B	04/10/08 6:01	lwitry	Q31593
1,1,2-Trichloroethane	BRL	mg/kg	0.0059	0.00063	1	8260B	04/10/08 6:01	lwitry	Q31593
1,1-Dichloroethane	BRL	mg/kg	0.0059	0.00067	1	8260B	04/10/08 6:01	lwitry	Q31593
1,1-Dichloroethene	BRL	mg/kg	0.0059	0.0010	1	8260B	04/10/08 6:01	lwitry	Q31593
1,1-Dichloropropene	BRL	mg/kg	0.0059	0.0007	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0059	0.00067	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2,3-Trichloropropane	BRL	mg/kg	0.0059	0.00079	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0059	0.00077	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0059	0.0003	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0059	0.00073	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2-Dichlorobenzene	BRL	mg/kg	0.0059	0.00038	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2-Dichloroethane	BRL	mg/kg	0.0059	0.00066	1	8260B	04/10/08 6:01	lwitry	Q31593
1,2-Dichloropropane	BRL	mg/kg	0.0059	0.0014	1	8260B	04/10/08 6:01	lwitry	Q31593
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0059	0.0005	1	8260B	04/10/08 6:01	lwitry	Q31593
1,3-Dichlorobenzene	BRL	mg/kg	0.0059	0.00039	1	8260B	04/10/08 6:01	lwitry	Q31593
1,3-Dichloropropane	BRL	mg/kg	0.0059	0.00025	1	8260B	04/10/08 6:01	lwitry	Q31593
1,4-Dichlorobenzene	BRL	mg/kg	0.0059	0.00076	1	8260B	04/10/08 6:01	lwitry	Q31593
2,2-Dichloropropane	BRL	mg/kg	0.0059	0.00085	1	8260B	04/10/08 6:01	lwitry	Q31593
2-Chlorotoluene	BRL	mg/kg	0.0059	0.00033	1	8260B	04/10/08 6:01	lwitry	Q31593

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-9 (2-4')
 Prism Sample ID: 210700
 COC Group: G0408173
 Time Collected: 04/03/08 13:05
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.059	0.0051	1	8260B	04/10/08 6:01	Iwitry	Q31593
4-Chlorotoluene	BRL	mg/kg	0.0059	0.00044	1	8260B	04/10/08 6:01	Iwitry	Q31593
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.059	0.0061	1	8260B	04/10/08 6:01	Iwitry	Q31593
Acetone	BRL	mg/kg	0.059	0.018	1	8260B	04/10/08 6:01	Iwitry	Q31593
Benzene	BRL	mg/kg	0.0035	0.0005	1	8260B	04/10/08 6:01	Iwitry	Q31593
Bromobenzene	BRL	mg/kg	0.0059	0.00076	1	8260B	04/10/08 6:01	Iwitry	Q31593
Bromochloromethane	BRL	mg/kg	0.0059	0.00048	1	8260B	04/10/08 6:01	Iwitry	Q31593
Bromodichloromethane	BRL	mg/kg	0.0059	0.00064	1	8260B	04/10/08 6:01	Iwitry	Q31593
Bromoform	BRL	mg/kg	0.0059	0.00053	1	8260B	04/10/08 6:01	Iwitry	Q31593
Bromomethane	BRL	mg/kg	0.012	0.0013	1	8260B	04/10/08 6:01	Iwitry	Q31593
Carbon tetrachloride	BRL	mg/kg	0.0059	0.00039	1	8260B	04/10/08 6:01	Iwitry	Q31593
Chlorobenzene	BRL	mg/kg	0.0059	0.0006	1	8260B	04/10/08 6:01	Iwitry	Q31593
Chlorodibromomethane	BRL	mg/kg	0.0059	0.00054	1	8260B	04/10/08 6:01	Iwitry	Q31593
Chloroethane	BRL	mg/kg	0.012	0.0020	1	8260B	04/10/08 6:01	Iwitry	Q31593
Chloroform	BRL	mg/kg	0.0059	0.00098	1	8260B	04/10/08 6:01	Iwitry	Q31593
Chloromethane	BRL	mg/kg	0.0059	0.0014	1	8260B	04/10/08 6:01	Iwitry	Q31593
cis-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.00095	1	8260B	04/10/08 6:01	Iwitry	Q31593
cis-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.00078	1	8260B	04/10/08 6:01	Iwitry	Q31593
Dichlorodifluoromethane	BRL	mg/kg	0.0059	0.0016	1	8260B	04/10/08 6:01	Iwitry	Q31593
Ethylbenzene	BRL	mg/kg	0.0059	0.00027	1	8260B	04/10/08 6:01	Iwitry	Q31593
Isopropyl ether (IPE)	BRL	mg/kg	0.0059	0.00054	1	8260B	04/10/08 6:01	Iwitry	Q31593
Isopropylbenzene	BRL	mg/kg	0.0059	0.00034	1	8260B	04/10/08 6:01	Iwitry	Q31593
m,p-Xylenes	BRL	mg/kg	0.012	0.00097	1	8260B	04/10/08 6:01	Iwitry	Q31593
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.017	1	8260B	04/10/08 6:01	Iwitry	Q31593
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.0005	1	8260B	04/10/08 6:01	Iwitry	Q31593
Methylene chloride	BRL	mg/kg	0.0059	0.00097	1	8260B	04/10/08 6:01	Iwitry	Q31593
n-Butylbenzene	BRL	mg/kg	0.0059	0.00043	1	8260B	04/10/08 6:01	Iwitry	Q31593

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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-9 (2-4')
 Prism Sample ID: 210700
 COC Group: G0408173
 Time Collected: 04/03/08 13:05
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0059	0.00039	1	8260B	04/10/08 6:01	lwitry	Q31593
Naphthalene	BRL	mg/kg	0.012	0.00071	1	8260B	04/10/08 6:01	lwitry	Q31593
o-Xylene	BRL	mg/kg	0.0059	0.00025	1	8260B	04/10/08 6:01	lwitry	Q31593
p-Isopropyltoluene	BRL	mg/kg	0.0059	0.00047	1	8260B	04/10/08 6:01	lwitry	Q31593
sec-Butylbenzene	BRL	mg/kg	0.0059	0.0004	1	8260B	04/10/08 6:01	lwitry	Q31593
Styrene	BRL	mg/kg	0.0059	0.00066	1	8260B	04/10/08 6:01	lwitry	Q31593
tert-Butylbenzene	BRL	mg/kg	0.0059	0.0005	1	8260B	04/10/08 6:01	lwitry	Q31593
Tetrachloroethene	0.0059	mg/kg	0.0059	0.00053	1	8260B	04/10/08 6:01	lwitry	Q31593
Toluene	BRL	mg/kg	0.0059	0.00044	1	8260B	04/10/08 6:01	lwitry	Q31593
trans-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.00076	1	8260B	04/10/08 6:01	lwitry	Q31593
trans-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.0007	1	8260B	04/10/08 6:01	lwitry	Q31593
Trichloroethene	BRL	mg/kg	0.0059	0.00086	1	8260B	04/10/08 6:01	lwitry	Q31593
Trichlorofluoromethane	BRL	mg/kg	0.0059	0.0011	1	8260B	04/10/08 6:01	lwitry	Q31593
Vinyl acetate	BRL	mg/kg	0.030	0.0017	1	8260B	04/10/08 6:01	lwitry	Q31593
Vinyl chloride	BRL	mg/kg	0.0059	0.0010	1	8260B	04/10/08 6:01	lwitry	Q31593

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	103	67 - 143
Bromofluorobenzene	107	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease	BRL	mg/kg	45	45	1	9071A	04/17/08 14:30	smarivanh	Q31844
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.8	2.1	1	8015B	04/12/08 16:29	jvogel	Q31718
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Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-9 (2-4')
 Prism Sample ID: 210700
 COC Group: G0408173
 Time Collected: 04/03/08 13:05
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID	
Sample Preparation:				50.59 g	/	2 mL	3550B	04/11/08 9:30	jvogel	P21328

Surrogate	% Recovery	Control Limits
o-Terphenyl	81	48 - 130

Sample Weight Determination

Weight 1	5.86	g		1	GRO	04/17/08 0:00	athao
Weight 2	6.01	g		1	GRO	04/17/08 0:00	athao

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	04/11/08 22:27	wbradley	Q31685
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Surrogate	% Recovery	Control Limits
aaa-TFT	105	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

04/25/08

North Carolina Department of
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 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-10 (7-10')
 Prism Sample ID: 210701
 COC Group: G0408173
 Time Collected: 04/03/08 13:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	85.8	%			1	SM2540 G	04/09/08 14:10	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.64	g			1	5035	04/08/08 0:00	fbrown	
Weight Bisulfate 2	5.54	g			1	5035	04/08/08 0:00	fbrown	
Weight Methanol	4.98	g			1	5035	04/08/08 0:00	fbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0052	0.00061	1	8260B	04/09/08 21:59	lwitry	Q31593
1,1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0052	0.00037	1	8260B	04/09/08 21:59	lwitry	Q31593
1,1,1,2-Trichloroethane	BRL	mg/kg	0.0052	0.00055	1	8260B	04/09/08 21:59	lwitry	Q31593
1,1-Dichloroethane	BRL	mg/kg	0.0052	0.00059	1	8260B	04/09/08 21:59	lwitry	Q31593
1,1-Dichloroethene	BRL	mg/kg	0.0052	0.00089	1	8260B	04/09/08 21:59	lwitry	Q31593
1,1-Dichloropropene	BRL	mg/kg	0.0052	0.00061	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0052	0.00059	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2,3-Trichloropropane	BRL	mg/kg	0.0052	0.00069	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0052	0.00067	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0052	0.00026	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0052	0.00064	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2-Dichlorobenzene	BRL	mg/kg	0.0052	0.00033	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2-Dichloroethane	BRL	mg/kg	0.0052	0.00058	1	8260B	04/09/08 21:59	lwitry	Q31593
1,2-Dichloropropane	BRL	mg/kg	0.0052	0.0013	1	8260B	04/09/08 21:59	lwitry	Q31593
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0052	0.00043	1	8260B	04/09/08 21:59	lwitry	Q31593
1,3-Dichlorobenzene	BRL	mg/kg	0.0052	0.00034	1	8260B	04/09/08 21:59	lwitry	Q31593
1,3-Dichloropropane	BRL	mg/kg	0.0052	0.00022	1	8260B	04/09/08 21:59	lwitry	Q31593
1,4-Dichlorobenzene	BRL	mg/kg	0.0052	0.00066	1	8260B	04/09/08 21:59	lwitry	Q31593
2,2-Dichloropropane	BRL	mg/kg	0.0052	0.00074	1	8260B	04/09/08 21:59	lwitry	Q31593
2-Chlorotoluene	BRL	mg/kg	0.0052	0.00029	1	8260B	04/09/08 21:59	lwitry	Q31593

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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-10 (7-10')
 Prism Sample ID: 210701
 COC Group: G0408173
 Time Collected: 04/03/08 13:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.052	0.0045	1	8260B	04/09/08 21:59	Iwity	Q31593
4-Chlorotoluene	BRL	mg/kg	0.0052	0.00038	1	8260B	04/09/08 21:59	Iwity	Q31593
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.052	0.0054	1	8260B	04/09/08 21:59	Iwity	Q31593
Acetone	0.078	mg/kg	0.052	0.015	1	8260B	04/09/08 21:59	Iwity	Q31593
Benzene	BRL	mg/kg	0.0031	0.00043	1	8260B	04/09/08 21:59	Iwity	Q31593
Bromobenzene	BRL	mg/kg	0.0052	0.00066	1	8260B	04/09/08 21:59	Iwity	Q31593
Bromochloromethane	BRL	mg/kg	0.0052	0.00042	1	8260B	04/09/08 21:59	Iwity	Q31593
Bromodichloromethane	BRL	mg/kg	0.0052	0.00056	1	8260B	04/09/08 21:59	Iwity	Q31593
Bromoform	BRL	mg/kg	0.0052	0.00046	1	8260B	04/09/08 21:59	Iwity	Q31593
Bromomethane	BRL	mg/kg	0.010	0.0012	1	8260B	04/09/08 21:59	Iwity	Q31593
Carbon tetrachloride	BRL	mg/kg	0.0052	0.00034	1	8260B	04/09/08 21:59	Iwity	Q31593
Chlorobenzene	BRL	mg/kg	0.0052	0.00053	1	8260B	04/09/08 21:59	Iwity	Q31593
Chlorodibromomethane	BRL	mg/kg	0.0052	0.00048	1	8260B	04/09/08 21:59	Iwity	Q31593
Chloroethane	BRL	mg/kg	0.010	0.0017	1	8260B	04/09/08 21:59	Iwity	Q31593
Chloroform	BRL	mg/kg	0.0052	0.00086	1	8260B	04/09/08 21:59	Iwity	Q31593
Chloromethane	BRL	mg/kg	0.0052	0.0012	1	8260B	04/09/08 21:59	Iwity	Q31593
cis-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00083	1	8260B	04/09/08 21:59	Iwity	Q31593
cis-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.00068	1	8260B	04/09/08 21:59	Iwity	Q31593
Dichlorodifluoromethane	BRL	mg/kg	0.0052	0.0014	1	8260B	04/09/08 21:59	Iwity	Q31593
Ethylbenzene	BRL	mg/kg	0.0052	0.00024	1	8260B	04/09/08 21:59	Iwity	Q31593
Isopropyl ether (IPE)	BRL	mg/kg	0.0052	0.00048	1	8260B	04/09/08 21:59	Iwity	Q31593
Isopropylbenzene	BRL	mg/kg	0.0052	0.0003	1	8260B	04/09/08 21:59	Iwity	Q31593
m,p-Xylenes	BRL	mg/kg	0.010	0.00085	1	8260B	04/09/08 21:59	Iwity	Q31593
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.10	0.015	1	8260B	04/09/08 21:59	Iwity	Q31593
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.010	0.00043	1	8260B	04/09/08 21:59	Iwity	Q31593
Methylene chloride	BRL	mg/kg	0.0052	0.00085	1	8260B	04/09/08 21:59	Iwity	Q31593
n-Butylbenzene	BRL	mg/kg	0.0052	0.00037	1	8260B	04/09/08 21:59	Iwity	Q31593

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 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-10 (7-10*)
 Prism Sample ID: 210701
 COC Group: G0408173
 Time Collected: 04/03/08 13:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0052	0.00034	1	8260B	04/09/08 21:59	lwitry	Q31593
Naphthalene	BRL	mg/kg	0.010	0.00062	1	8260B	04/09/08 21:59	lwitry	Q31593
o-Xylene	BRL	mg/kg	0.0052	0.00022	1	8260B	04/09/08 21:59	lwitry	Q31593
p-Isopropyltoluene	BRL	mg/kg	0.0052	0.00041	1	8260B	04/09/08 21:59	lwitry	Q31593
sec-Butylbenzene	BRL	mg/kg	0.0052	0.00035	1	8260B	04/09/08 21:59	lwitry	Q31593
Styrene	BRL	mg/kg	0.0052	0.00058	1	8260B	04/09/08 21:59	lwitry	Q31593
tert-Butylbenzene	BRL	mg/kg	0.0052	0.00043	1	8260B	04/09/08 21:59	lwitry	Q31593
Tetrachloroethene	BRL	mg/kg	0.0052	0.00046	1	8260B	04/09/08 21:59	lwitry	Q31593
Toluene	BRL	mg/kg	0.0052	0.00038	1	8260B	04/09/08 21:59	lwitry	Q31593
trans-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00066	1	8260B	04/09/08 21:59	lwitry	Q31593
trans-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.00061	1	8260B	04/09/08 21:59	lwitry	Q31593
Trichloroethene	BRL	mg/kg	0.0052	0.00075	1	8260B	04/09/08 21:59	lwitry	Q31593
Trichlorofluoromethane	BRL	mg/kg	0.0052	0.00092	1	8260B	04/09/08 21:59	lwitry	Q31593
Vinyl acetate	BRL	mg/kg	0.026	0.0015	1	8260B	04/09/08 21:59	lwitry	Q31593
Vinyl chloride	BRL	mg/kg	0.0052	0.0009	1	8260B	04/09/08 21:59	lwitry	Q31593

Surrogate	% Recovery	Control Limits
Toluene-d8	100	81 - 128
Dibromofluoromethane	93	67 - 143
Bromofluorobenzene	105	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease BRL mg/kg 41 41 1 9071A 04/17/08 14:30 smanivanh Q31844

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 8.1 1.3 1 8015B 04/13/08 0:52 jvogel Q31719

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-10 (7-10')
 Prism Sample ID: 210701
 COC Group: G0408173
 Time Collected: 04/03/08 13:40
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				25.11 g	/	1 mL	3545	04/11/08 17:00	wconder P21312

Surrogate	% Recovery	Control Limits
o-Terphenyl	60	49 - 124

Sample Weight Determination

Weight 1	5.92	g	1	GRO	04/17/08 0:00	athao
Weight 2	5.72	g	1	GRO	04/17/08 0:00	athao

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/11/08 22:58	wbradley	Q31685
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Surrogate	% Recovery	Control Limits
aaa-TFT	73	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
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 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

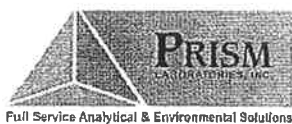
Client Sample ID: 43-11 (7-10)
 Prism Sample ID: 210702
 COC Group: G0408173
 Time Collected: 04/03/08 14:15
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	84.6	%			1	SM2540 G	04/09/08 14:10	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	5.41	g			1	5035	04/08/08 0:00	lbrown	
Weight Bisulfate 2	5.11	g			1	5035	04/08/08 0:00	lbrown	
Weight Methanol	5.45	g			1	5035	04/08/08 0:00	lbrown	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0055	0.00065	1	8260B	04/09/08 22:43	lwitry	Q31593
1,1,1,2-Tetrachloroethane	BRL	mg/kg	0.0055	0.0004	1	8260B	04/09/08 22:43	lwitry	Q31593
1,1,1,2-Trichloroethane	BRL	mg/kg	0.0055	0.00058	1	8260B	04/09/08 22:43	lwitry	Q31593
1,1-Dichloroethane	BRL	mg/kg	0.0055	0.00063	1	8260B	04/09/08 22:43	lwitry	Q31593
1,1-Dichloroethene	BRL	mg/kg	0.0055	0.00095	1	8260B	04/09/08 22:43	lwitry	Q31593
1,1-Dichloropropene	BRL	mg/kg	0.0055	0.00065	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0055	0.00063	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2,3-Trichloropropane	BRL	mg/kg	0.0055	0.00074	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0055	0.00072	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0055	0.00028	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0055	0.00068	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2-Dichlorobenzene	BRL	mg/kg	0.0055	0.00035	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2-Dichloroethane	BRL	mg/kg	0.0055	0.00062	1	8260B	04/09/08 22:43	lwitry	Q31593
1,2-Dichloropropane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/09/08 22:43	lwitry	Q31593
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/09/08 22:43	lwitry	Q31593
1,3-Dichlorobenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/09/08 22:43	lwitry	Q31593
1,3-Dichloropropane	BRL	mg/kg	0.0055	0.00023	1	8260B	04/09/08 22:43	lwitry	Q31593
1,4-Dichlorobenzene	BRL	mg/kg	0.0055	0.00071	1	8260B	04/09/08 22:43	lwitry	Q31593
2,2-Dichloropropane	BRL	mg/kg	0.0055	0.00079	1	8260B	04/09/08 22:43	lwitry	Q31593
2-Chlorotoluene	BRL	mg/kg	0.0055	0.00031	1	8260B	04/09/08 22:43	lwitry	Q31593

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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-11 (7-10')
 Prism Sample ID: 210702
 COC Group: G0408173
 Time Collected: 04/03/08 14:15
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.055	0.0048	1	8260B	04/09/08 22:43	lwitry	Q31593
4-Chlorotoluene	BRL	mg/kg	0.0055	0.00041	1	8260B	04/09/08 22:43	lwitry	Q31593
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.055	0.0057	1	8260B	04/09/08 22:43	lwitry	Q31593
Acetone	0.082	mg/kg	0.055	0.016	1	8260B	04/09/08 22:43	lwitry	Q31593
Benzene	BRL	mg/kg	0.0033	0.00046	1	8260B	04/09/08 22:43	lwitry	Q31593
Bromobenzene	BRL	mg/kg	0.0055	0.00071	1	8260B	04/09/08 22:43	lwitry	Q31593
Bromochloromethane	BRL	mg/kg	0.0055	0.00045	1	8260B	04/09/08 22:43	lwitry	Q31593
Bromodichloromethane	BRL	mg/kg	0.0055	0.0006	1	8260B	04/09/08 22:43	lwitry	Q31593
Bromoform	BRL	mg/kg	0.0055	0.0005	1	8260B	04/09/08 22:43	lwitry	Q31593
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/09/08 22:43	lwitry	Q31593
Carbon tetrachloride	BRL	mg/kg	0.0055	0.00036	1	8260B	04/09/08 22:43	lwitry	Q31593
Chlorobenzene	BRL	mg/kg	0.0055	0.00056	1	8260B	04/09/08 22:43	lwitry	Q31593
Chlorodibromomethane	BRL	mg/kg	0.0055	0.00051	1	8260B	04/09/08 22:43	lwitry	Q31593
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/09/08 22:43	lwitry	Q31593
Chloroform	BRL	mg/kg	0.0055	0.00092	1	8260B	04/09/08 22:43	lwitry	Q31593
Chloromethane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/09/08 22:43	lwitry	Q31593
cis-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.00088	1	8260B	04/09/08 22:43	lwitry	Q31593
cis-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00073	1	8260B	04/09/08 22:43	lwitry	Q31593
Dichlorodifluoromethane	BRL	mg/kg	0.0055	0.0015	1	8260B	04/09/08 22:43	lwitry	Q31593
Ethylbenzene	BRL	mg/kg	0.0055	0.00025	1	8260B	04/09/08 22:43	lwitry	Q31593
Isopropyl ether (IPE)	BRL	mg/kg	0.0055	0.00051	1	8260B	04/09/08 22:43	lwitry	Q31593
Isopropylbenzene	BRL	mg/kg	0.0055	0.00032	1	8260B	04/09/08 22:43	lwitry	Q31593
m,p-Xylenes	BRL	mg/kg	0.011	0.0009	1	8260B	04/09/08 22:43	lwitry	Q31593
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/09/08 22:43	lwitry	Q31593
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00046	1	8260B	04/09/08 22:43	lwitry	Q31593
Methylene chloride	BRL	mg/kg	0.0055	0.0009	1	8260B	04/09/08 22:43	lwitry	Q31593
n-Butylbenzene	BRL	mg/kg	0.0055	0.0004	1	8260B	04/09/08 22:43	lwitry	Q31593

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-11 (7-10')
 Prism Sample ID: 210702
 COC Group: G0408173
 Time Collected: 04/03/08 14:15
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/09/08 22:43	lwitry	Q31593
Naphthalene	BRL	mg/kg	0.011	0.00066	1	8260B	04/09/08 22:43	lwitry	Q31593
o-Xylene	BRL	mg/kg	0.0055	0.00023	1	8260B	04/09/08 22:43	lwitry	Q31593
p-Isopropyltoluene	BRL	mg/kg	0.0055	0.00044	1	8260B	04/09/08 22:43	lwitry	Q31593
sec-Butylbenzene	BRL	mg/kg	0.0055	0.00037	1	8260B	04/09/08 22:43	lwitry	Q31593
Styrene	BRL	mg/kg	0.0055	0.00062	1	8260B	04/09/08 22:43	lwitry	Q31593
tert-Butylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/09/08 22:43	lwitry	Q31593
Tetrachloroethene	0.010	mg/kg	0.0055	0.0005	1	8260B	04/09/08 22:43	lwitry	Q31593
Toluene	BRL	mg/kg	0.0055	0.00041	1	8260B	04/09/08 22:43	lwitry	Q31593
trans-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.00071	1	8260B	04/09/08 22:43	lwitry	Q31593
trans-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00065	1	8260B	04/09/08 22:43	lwitry	Q31593
Trichloroethene	BRL	mg/kg	0.0055	0.0008	1	8260B	04/09/08 22:43	lwitry	Q31593
Trichlorofluoromethane	BRL	mg/kg	0.0055	0.00098	1	8260B	04/09/08 22:43	lwitry	Q31593
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/09/08 22:43	lwitry	Q31593
Vinyl chloride	BRL	mg/kg	0.0055	0.00096	1	8260B	04/09/08 22:43	lwitry	Q31593

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	94	67 - 143
Bromofluorobenzene	108	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease BRL mg/kg 41 41 1 9071A 04/17/08 14:30 smanivanh Q31844

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 8.2 1.3 1 8015B 04/13/08 1:27 jvogel Q31719

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Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-11 (7-10')
 Prism Sample ID: 210702
 COC Group: G0408173
 Time Collected: 04/03/08 14:15
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				25.28 g	/	1 mL	3545	04/11/08 17:00	wconder P21312
				Surrogate		% Recovery		Control Limits	
				o-Terphenyl		73		49 - 124	
Sample Weight Determination									
Weight 1	5.72	g			1	GRO	04/17/08 0:00	athao	
Weight 2	5.93	g			1	GRO	04/17/08 0:00	athao	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015B	04/11/08 23:30	wbradley	Q31685
				Surrogate		% Recovery		Control Limits	
				aaa-TFT		81		55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-A (2-4)
 Prism Sample ID: 211305
 COC Group: G0408351
 Time Collected: 04/10/08 11:20
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	94.1	%			1	SM2540 G	04/16/08 15:15	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	5.23	g			1	5035	04/22/08 0:00	athao	
Weight Bisulfate 2	4.11	g			1	5035	04/22/08 0:00	athao	
Weight Methanol	3.93	g			1	5035	04/22/08 0:00	athao	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0051	0.0006	1	8260B	04/16/08 6:51	erussell	Q31741
1,1,1,2-Tetrachloroethane	BRL	mg/kg	0.0051	0.00037	1	8260B	04/16/08 6:51	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0051	0.00054	1	8260B	04/16/08 6:51	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0051	0.00058	1	8260B	04/16/08 6:51	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0051	0.00087	1	8260B	04/16/08 6:51	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0051	0.0006	1	8260B	04/16/08 6:51	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0051	0.00058	1	8260B	04/16/08 6:51	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0051	0.00068	1	8260B	04/16/08 6:51	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0051	0.00066	1	8260B	04/16/08 6:51	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0051	0.00025	1	8260B	04/16/08 6:51	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0051	0.00063	1	8260B	04/16/08 6:51	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0051	0.00033	1	8260B	04/16/08 6:51	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0051	0.00057	1	8260B	04/16/08 6:51	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0051	0.0012	1	8260B	04/16/08 6:51	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0051	0.00043	1	8260B	04/16/08 6:51	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0051	0.00034	1	8260B	04/16/08 6:51	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0051	0.00021	1	8260B	04/16/08 6:51	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0051	0.00065	1	8260B	04/16/08 6:51	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0051	0.00073	1	8260B	04/16/08 6:51	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0051	0.00028	1	8260B	04/16/08 6:51	erussell	Q31741

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Laboratory Report

04/28/08

North Carolina Department of
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 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-A (2-4)
 Prism Sample ID: 211305
 COC Group: G0408351
 Time Collected: 04/10/08 11:20
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.051	0.0044	1	8260B	04/16/08 6:51	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0051	0.00038	1	8260B	04/16/08 6:51	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.051	0.0053	1	8260B	04/16/08 6:51	erussell	Q31741
Acetone	0.15	mg/kg	0.051	0.015	1	8260B	04/16/08 6:51	erussell	Q31741
Benzene	BRL	mg/kg	0.0030	0.00043	1	8260B	04/16/08 6:51	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0051	0.00065	1	8260B	04/16/08 6:51	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0051	0.00042	1	8260B	04/16/08 6:51	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0051	0.00055	1	8260B	04/16/08 6:51	erussell	Q31741
Bromoform	BRL	mg/kg	0.0051	0.00046	1	8260B	04/16/08 6:51	erussell	Q31741
Bromomethane	BRL	mg/kg	0.010	0.0011	1	8260B	04/16/08 6:51	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0051	0.00034	1	8260B	04/16/08 6:51	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0051	0.00052	1	8260B	04/16/08 6:51	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0051	0.00047	1	8260B	04/16/08 6:51	erussell	Q31741
Chloroethane	BRL	mg/kg	0.010	0.0017	1	8260B	04/16/08 6:51	erussell	Q31741
Chloroform	BRL	mg/kg	0.0051	0.00084	1	8260B	04/16/08 6:51	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0051	0.0012	1	8260B	04/16/08 6:51	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0051	0.00081	1	8260B	04/16/08 6:51	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0051	0.00067	1	8260B	04/16/08 6:51	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0051	0.0014	1	8260B	04/16/08 6:51	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0051	0.00023	1	8260B	04/16/08 6:51	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0051	0.00047	1	8260B	04/16/08 6:51	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0051	0.00029	1	8260B	04/16/08 6:51	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.010	0.00083	1	8260B	04/16/08 6:51	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.10	0.015	1	8260B	04/16/08 6:51	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.010	0.00043	1	8260B	04/16/08 6:51	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0051	0.00083	1	8260B	04/16/08 6:51	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0051	0.00037	1	8260B	04/16/08 6:51	erussell	Q31741

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-A (2-4)
 Prism Sample ID: 211305
 COC Group: G0408351
 Time Collected: 04/10/08 11:20
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0051	0.00034	1	8260B	04/16/08 6:51	erussell	Q31741
Naphthalene	BRL	mg/kg	0.010	0.00061	1	8260B	04/16/08 6:51	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0051	0.00021	1	8260B	04/16/08 6:51	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0051	0.00041	1	8260B	04/16/08 6:51	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0051	0.00035	1	8260B	04/16/08 6:51	erussell	Q31741
Styrene	BRL	mg/kg	0.0051	0.00057	1	8260B	04/16/08 6:51	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0051	0.00043	1	8260B	04/16/08 6:51	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0051	0.00046	1	8260B	04/16/08 6:51	erussell	Q31741
Toluene	BRL	mg/kg	0.0051	0.00038	1	8260B	04/16/08 6:51	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0051	0.00065	1	8260B	04/16/08 6:51	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0051	0.0006	1	8260B	04/16/08 6:51	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0051	0.00074	1	8260B	04/16/08 6:51	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0051	0.0009	1	8260B	04/16/08 6:51	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.025	0.0014	1	8260B	04/16/08 6:51	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0051	0.00088	1	8260B	04/16/08 6:51	erussell	Q31741

Surrogate	% Recovery	Control Limits
Toluene-d8	102	81 - 128
Dibromofluoromethane	106	67 - 143
Bromofluorobenzene	106	77 - 128

Oil and Grease by Soxhlet Extraction

Oil and Grease BRL mg/kg 37 37 1 9071A 04/23/08 14:00 smanivanh Q31986

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 7.4 1.2 1 8015B 04/24/08 20:51 jvogel Q31993

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 43-A (2-4)
 Prism Sample ID: 211305
 COC Group: G0408351
 Time Collected: 04/10/08 11:20
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				25.27 g	/	1 mL	3545	04/23/08 17:10	wconder P21424

Surrogate	% Recovery	Control Limits
o-Terphenyl	58	49 - 124

Sample Weight Determination

Weight 1	3.61	g		1	GRO	04/17/08 0:00	athao
Weight 2	2.48	g		1	GRO	04/17/08 0:00	athao

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.3	3.3	50	8015B	04/19/08 20:17	grappaccioli	Q31853
-------------------------------	-----	-------	-----	-----	----	-------	----------------	--------------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	101	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



Full Service Analytical & Environmental Solutions

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

Client Company Name: AT&T & ARCELORMITTAL

Report To/Contact Name: DAVE GRAHAM

Reporting Address: 2923 STRONG ST

CHARLOTTE NC 28209

Phone: 704/580007 Fax (Yes) (No): -

Email (Yes) (No) Email Address: dgraham@att.net

EDD Type: PDF Excel Other

Site Location Name: BOOVE PS4S

Site Location Physical Address: BOOVE NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: BOOVE PS4S

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

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

Invoice To: AT&T

Address: WBS ELEMENT 35015.0.1

Purchase Order No./Billing Reference _____

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

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

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

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

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

ANALYSES REQUESTED TRIP TO BOOVE PS4S

PRESERVATIVES

SAMPLE CONTAINER

*TYPE SEE BELOW

NO.

SIZE

MATRIX (SOIL, WATER OR SLUDGE)

TIME COLLECTED MILITARY HOURS

DATE COLLECTED

CLIENT SAMPLE DESCRIPTION

PREPARATION

ANALYSES REQUESTED

REMARKS

PRISM LAB ID NO.

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

SC OTHER N/A

Water Chlorinated: YES NO

Sample Iced Upon Collection: YES NO

YES NO

Received ON WET ICE? Temp 42

PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?

CUSTOMER SEALS INTACT?

VOLATILES rec'd W/OUT HEADSPACE?

PROPER CONTAINERS used?

LAB USE ONLY

YES NO N/A

Samples INTACT upon arrival?

Received ON WET ICE? Temp 42

PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?

CUSTOMER SEALS INTACT?

VOLATILES rec'd W/OUT HEADSPACE?

PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

SC OTHER N/A

Water Chlorinated: YES NO

Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER		PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.				
✓ 43-6 (2-4)	4-3-08	10 50	SOIL	6	8		TRIP TO BOOVE PS4S		210697
✓ 43-7 (2-4)		11 20		6	8				210698
✓ 43-8 (2-4)		11 40		6	8				210699
✓ 43-9 (2-4)		13 05		6	8				210700
✓ 43-10 (7-10)		13 40		6	8				210701
✓ 43-11 (7-10)		14 15		6	8				210702
✓ 35-5 (10-12)	4-3-08	16 45	SOIL	G	5				210703

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

Additional Comments:

Military/Hours: _____

Date: _____

Date: _____

Date: 4/7/08 1033

COC Group No. _____

Received For: Prism Laboratories By: Dave Graham

Received By: (Signature) _____

Received By: (Signature) _____

Received By: (Signature) _____

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC NC SC

CERCLA: NC SC NC SC NC SC

LANDFILL: NC SC NC SC NC SC

OTHER: NC SC NC SC NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-9409

Client Company Name: HAERD HICKMAN
 Report To/Contact Name: DAVID GRAHAM
 Reporting Address:

Phone: 887 4630 Fax (Yes) (No):
 Email (Yes) (No) Email Address:
 EDD Type: PDF Excel Other Boone PSAs
 Site Location Name: Boone PSAs
 Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE 2 OF 3 QUOTE # TO ENSURE PROPER BILLING:
 Project Name: ROW 148 - BOONE PSAs
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
 Invoiced To: NC DOT - STATE PROJECT U-4020
 Address:

Purchase Order No./Billing Reference: MBS 35015-1.1
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER		PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				TYPE SEE BELOW	NO. SIZE				
42-12 (10-12)	04/20/08	1350	SOIL	C.G.	8		✓		210601
42-13 (8-10)		1410		C.G. 4oz	2	4oz methanol	✓		210602
42-14 (2-4)		1420			2		✓		210603
42-15 (6-8)		1455			2		✓		210604
42-15 (10-12)		1505			2		✓		210605
42-16 (2-5)		1525			2		✓		210606
43-1 (4-6)		1540			2		✓		210607
43-2 (7-10)		1550			2		✓		210608
43-3 (5-7)		1605			2		✓		210609
43-4 (5-7)					2		✓		210610

Sampled By (Print Name) MIKE FALLSNOOK-CAROL MATHIEUS Affiliation H&H

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

Relinquished By (Signature) [Signature] Received By (Signature) [Signature]
 Relinquished By (Signature) [Signature] Received By (Signature) [Signature]
 Relinquished By (Signature) [Signature] Received By (Signature) [Signature]

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST CO UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hybrid-delivered Prism Field Service Other

NPDES: NC SC Other Groundwater: NC SC Drinking Water: NC SC Solid Waste: NC SC RCRA: NC SC CERCLA: NC SC Landfill: NC SC Other: NC SC Other: NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap. VOA = Volatile Organics Analysis (Bottle Head Space)

LAB USE ONLY
 Samples INTACT upon arrival? YES NO
 Received ON WET ICE? Temp 3.9
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: NELAC USACE FL NC
 SC OTHER N/A
 Water Chlorinated: YES NO
 Sample Iced Upon Collection: YES NO

Additional Comments:
 Military/Hours: 1610
 Date: 4/2/08
 Date: 4/3/08
 COC Group No.: 60408143

PRISM USE ONLY
 Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

SEE REVERSE FOR TERMS & CONDITIONS
 ORIGINAL



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/528-6364 • Fax: 704/525-0409
 Client Company Name: HART & HICKMAN
 Report To/Contact Name: DAVID GRANTMAN
 Reporting Address:

Phone: 704 887-4629 Fax (Yes) (No):
 Email (Yes) (No) Email Address
 EDD Type: PDF Excel Other
 Site Location Name: BOONE PSA
 Site Location Physical Address:

CHAIN OF CUSTODY RECORD

QUOTE # TO ENSURE PROPER BILLING:
 Project Name: Boone PSA
 Short Hold Analysis: (Yes) (No) (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
 Invoice To: NC DOT STATE PROJECT: U-4020
 Address:

Purchase Order No./Billing Reference: NBS 350151.1
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				TYPE SEE BELOW	NO.	SIZE				
43-5 (5-7)	04/20/08	1615	SOIL	C. 6. VOL	2	40ml	without	DRY WT. BASIS		26611

Sampler's Signature: [Signature] Sampled By (Print Name): M. Falkner/C. Matthews Affiliation: HRH
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature]
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature]
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature]

Method of Shipment: Fed Ex UPS Other
 *CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero-Head-Space)
 NPDES: NC SC NC SC NC SC NC SC NC SC NC SC
 DRINKING WATER: NC SC NC SC NC SC NC SC
 SOLID WASTE: NC SC NC SC NC SC
 CERCLA: NC SC NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER: NC SC NC SC
 CQC Group No. 60488143

LAB USE ONLY
 Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICS? Temp 3.9
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: NELAC USACE FL NC
 SC OTHER N/A
 Water Chlorinated: YES NO
 Sample Iced Upon Collection: YES NO

PRESS DOWN FIRMLY - 3 COPIES

PRISM USE ONLY
 Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Full Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6384 • Fax: 704/525-0409

Client Company Name: HART & HICKMAN
Report To/Contact Name: D. Graham
Reporting Address: 2923 S. Tryon St.
Phone: 704-586-0007 Fax (Yes) (No)
Email (Yes) (No) Email Address: dgraham@hartandhickman.com
EDD Type: PDF Excel Other
Site Location Name: Bono-DOT
Site Location Physical Address: Bono-DOT

Project Name: Row-148
Short Hold Analysis: (Yes) (No)
UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
Invoice To: _____
Address: _____
Purchase Order No./Billing Reference _____
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
42-31(7-9)	4/10/08	1030	soil	VOL-ICG	3	40ml 6oz	none/metal	TPE-COL DRO OFC		211303
43-B		1100	H ₂ O	VOL-ICG	3	40ml 6oz	none/metal		HOLD H ₂ O samples	211304
43-A(2-4)		1120	soil	VOL-ICG	3	40ml 6oz	none/metal		HOLD H ₂ O samples	211305
45-A		1140	soil	VOL-ICG	3	40ml 6oz	none/metal		HOLD H ₂ O samples	211306
45-B		1230	H ₂ O	VOL-ICG	3	40ml 6oz	none/metal		HOLD H ₂ O samples 4/18/08 H ₂ O per David Graham	211307

Samplers Signature: [Signature] Sampled By (Print Name) M. Falkner Affiliation H&H

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

Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date _____ Military/Hours _____
Additional Comments: _____

Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date _____ Military/Hours _____
Relinquished By: (Signature) [Signature] Received For Prism Laboratories By: [Signature] Date 4/11/08 COC Group No. 000

Method of Shipment: UPS Hand-delivered Prism Field Service Other
NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC

USFA NC SC NC SC NC SC NC SC NC SC

DRINKING WATER: NC SC NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC NC SC

CERCLA NC SC NC SC NC SC NC SC

LANDFILL NC SC NC SC NC SC NC SC

OTHER: NC SC NC SC

PRISM USE ONLY
Site Arrival Time: _____
Site Departure Time: _____
Field Tech Fee: _____
Mileage: _____

PRESS DOWN FIRMLY - 3 COPIES

SEE REVERSE FOR TERMS & CONDITIONS