

North Carolina Department of Transportation

**PRELIMINARY SITE ASSESSMENT
FOR PARCEL 65**

**State Project U-4020, WBS Element 35015.1.1
US 421 (King Street) from US 321 (Hardin Street)
to East of NC 194 (Jefferson Road) in Boone
Watauga County, North Carolina**



May 29, 2008
Revised June 10, 2008
Project Number 07210023.07



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**North Carolina Department of Transportation
PRELIMINARY SITE ASSESSMENT FOR PARCEL 65
State Project U-4020, WBS Element 35015.1.1
US 421 (King Street) from US 321 (Hardin Street) to East of NC 194 (Jefferson Road) in
Boone, Watauga County, North Carolina**

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is widening the existing alignment of US Highway 421 (King Street) in the town of Boone, located in Watauga County, North Carolina. Acquisition of properties within the right-of-way is necessary prior to road construction. Schnabel Engineering conducted Preliminary Site Assessments (PSAs) on six sites (seven parcels) located within the proposed right-of-way that are of concern to the NCDOT.

This report summarizes the results of field activities conducted during the PSA for property identified by NCDOT as Parcel 65 (Clyde Jones Auto, 994 East King Street), currently owned by Clyde Jones (Figure 1). This property is located on the south side of East King Street at the NC 194 intersection. The vicinity of the Study Area is more clearly identified on Figure 2. The approximate NCDOT project limits that delineate the property acquisition area are shown on Figure 3.

2.0 BACKGROUND AND SITE DESCRIPTION

A one-story brick and cinder block building used as an automotive supply retailer is located on Parcel 65. The surface of the site is covered with an asphalt parking lot, discarded utility poles, an auto parts building, grass, and a storage trailer. Several utilities cross the site including buried water and sewer pipes, as well as overhead electric lines. Photographs of the Study Area are presented in Appendix A. The information regarding prior site use provided to Schnabel Engineering by NCDOT was that one heating oil UST was noted on the Study Area, the business may have operated as a gas station in the past, and that the western part of the site was reportedly operated as a radiator shop. This preliminary site assessment was for the investigation of the entire parcel.

3.0 FIELD METHODOLOGY

Prior to mobilizing to the site to conduct subsurface sampling, Schnabel Engineering contacted North Carolina One Call to locate underground utilities in the proposed property acquisition areas (Study Area) of the site. Schnabel Engineering performed an electromagnetic survey of the subsurface of the Study Area on March 12, 2008. The electromagnetic survey equipment (EM61-MK2) identified various buried metal anomalies within the Study Area. Schnabel returned to the Study Area to perform a ground penetrating radar (GPR) survey on March 21, 2008 utilizing a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna. Results of the survey suggested the presence of buried utility lines or conduits, and the probable presence of a UST within the Study Area. The report on the geophysical surveys is included in Appendix B and was previously sent to the NCDOT on May 2, 2008.

After reviewing the background information and geophysical data, Schnabel returned to Parcel 65 to obtain soil and water samples for chemical analysis from within the Study Area. Soil samples were collected to test for total petroleum hydrocarbon gasoline and diesel range volatile organic carbons (TPH-GRO and TPH-DRO), oil and grease, and glycol. Water samples were collected to test for total petroleum hydrocarbon gasoline and diesel range volatile organic carbons (TPH-GRO and TPH-DRO) and glycol. NCDOT requested that soil samples at Parcel 65 be analyzed for glycol because a reported radiator shop had previously operated on the property. Four borings designated B-65-01 through B-65-04 were advanced by Subsurface Environmental Investigations, Statesville, NC on Parcel 65 on April 1, 2008. The locations of the four soil borings are shown on Figure 3. The borings were each advanced to a total depth of eight feet below ground surface. Borings B-65-03 and B-65-04 installed within the Study Area were advanced with a track-mounted Geoprobe[®] (Model 6610-DT) with direct push probe technology. Borings B-65-01 and B-65-02 were installed using a hand auger because the Geoprobe could not access these boring locations. At the completion of the sampling activities, each boring was backfilled with soil removed from the boring during sampling and/or bentonite chips.

Soil samples were obtained from Geoprobe borings B-65-03 and B-65-04 using a MacroCore[®] sampler fitted with a new, single-use, disposable polyvinyl chloride (PVC) liner. Each liner was 4

feet in length. Soil samples were obtained from hand auger borings B-65-01 and B-65-02 by placing material from the hand auger in piles on a clean plastic sheet for every two feet advanced by the augering. A portion of each 2-foot interval was placed in separate resealable plastic bags. These bags were sealed and placed at ambient temperature for field screening with a MultiRAE Plus photo ionization detector (PID). Volatile organic compounds were allowed to accumulate in the headspace of each bag for approximately 15 minutes, and then the headspace of each sealed bag was scanned with the PID. Headspace screening of the soil samples indicated a concentration of 0 ppm at each boring location at intervals of two, four, six, and eight feet below ground surface. The PID was calibrated on March 29, 2008 in general accordance with the manufacturer's recommended calibration procedures. The PID readings were recorded along with the soil descriptions and indications of staining or odors, if present. Logs for each boring are presented in Appendix C.

Soil samples for laboratory analysis were collected from each boring at the sample intervals identified in Table 1. These samples were obtained from the bottom of each boring above the water table. A glycol soil sample was collected at each geoprobe boring at ground surface to two feet depth except B-65-04 which also had a water sample collected and analyzed for glycol. A water sample was collected at B-65-04 using a peristaltic Geopump 1 with a polyethylene tube with Teflon liner on the water discharge tube. All soil and water samples were placed in laboratory-supplied containers and stored on ice pending shipment to Prism Laboratories, Inc. (Prism) in Charlotte, NC. Sample information was recorded on the Chain-of-Custody form and the samples were submitted for chemical analysis of TPH-GRO by Modified EPA Method 5030/8015, TPH-DRO by Modified EPA Method 3545/8015, and glycol. An Oil and Grease soil sample was collected at B-65-01 because of its proximity to the probable UST.

Soils collected from borings within the Study Area generally consisted of silty sand (SM) or sandy silt (ML). GPS coordinates for each boring were obtained using a Trimble Pro-XRS DGPS system (Appendix D) with coordinates reported in US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet.

4.0 DISCUSSION OF RESULTS

TPH-DRO was detected in samples from the 6 to 8 foot depth interval of B-65-03 and from the 4 to 6 foot interval of B-65-04 at estimated concentrations of 16.0 mg/kg and 6.0J mg/kg, respectively. TPH-GRO was detected in the soil sample from the 6 to 8 foot depth interval of B-65-03 at an estimated concentration of 0.40J mg/kg. A “J” value indicates that the analyte was positively identified but the value is estimated below the reporting limit. Results from the remaining soil and water samples submitted for analysis did not reveal the presence of TPH-GRO or TPH-DRO at levels above the laboratory reporting limits.

Glycol was detected in soil samples from the 0 to 2 foot depth interval of B-65-02 and B-65-03 at estimated concentrations of 7.15 mg/kg and 4.54 mg/kg, respectively. Results from the remaining soil and water samples submitted for analysis did not reveal the presence of glycol at levels above the laboratory reporting limits.

Laboratory analytical results are summarized in Table 2. Laboratory reports for these samples are presented in Appendix E.

5.0 CONCLUSIONS

The geophysical survey conducted at the site indicated the probable presence of a UST located at the southern edge of the Clyde Jones Auto building near the innermost corner of the building. The geophysical survey also indicated the presence of buried utility lines or conduits. Four soil borings B-65-01 through B-65-04 were advanced to sample and analyze for petroleum, oil and grease, and glycol within the Study Area, and to document soil conditions.

The laboratory analytical results showed that TPH-DRO was present in soil boring B-65-03 at an estimated concentration of 16 mg/kg and that glycol was present in B-65-02 and B-65-03 at estimated concentrations of 7.15 mg/kg and 4.54 mg/kg, respectively. These results are below the TPH Action Level of 40 mg/kg for DRO and the NCDENR Maximum Soil Contaminant Concentration (MSCC) levels for glycol (*UST Section Guidelines for the Investigation and*

Remediation of Contamination from Non-UST Petroleum Releases, Department of Environment and Natural Resource, Division of Waste Management, UST Section, July, 2007).

Laboratory analytical results showed that TPH-GRO was detected in the soil sample from the 6 to 8 foot depth interval of B-65-03 at an estimated concentration of 0.40J mg/kg/. This concentration is below the laboratory reporting limit.

Laboratory analytical results showed that the water sample from geoprobe boring B-65-04 was below the laboratory reporting limit for TPH-DRO, TPH-GRO, Method 8260 Organics, and glycol.

6.0 RECOMMENDATIONS

Based on the currently available information presented in this report, additional assessment is not recommended. Concentrations of the constituents selected for laboratory analysis were below the TPH Action Level and NCDENR MSCC levels, so excavation and treatment of soils for these constituents is not recommended. However, NCDOT may choose to properly transport and treat the excavated soil in the vicinity of these soil borings. During roadway construction, the NCDOT transportation/disposal contractor may use different criteria for estimating impacted soil.

7.0 LIMITATIONS

This Preliminary Site Assessment was prepared for the use of the North Carolina Department of Transportation. It is not intended to represent an exhaustive research of all potential hazards that may exist. Schnabel makes no other declarations, or any express or implied warranty, as to the professional services provided under the terms of the agreement.

TABLES

TABLE 1
SAMPLING INTERVALS AND FIELD VOLATILE MEASUREMENTS
PARCEL 65
NCDOT U-4020, Watauga County

Sample Depth Below Ground Surface	Soil Borings			
	B-65-01	B-65-02	B-65-03	B-65-04
	PID (ppm)			
0 - 2 feet	ND	ND	ND	ND
2 - 4 feet	ND	ND	ND	ND
4 - 6 feet	ND	ND	ND	ND**
6 - 8 feet	NS	ND	ND*	NS

Shaded cells were submitted for laboratory analysis

NS = Not Sampled

ND = Volatiles Not Detected by field measurements (0 ppm headspace reading with PID)

ND* = Water Encountered

ND** = Water Sample Taken

PID readings were obtained using a MiniRae Photo Ionization Detector

ppm = parts per million

**TABLE 2
SUMMARY OF LABORATORY RESULTS
PARCEL 65
NCDOT U-4020, WATAUGA COUNTY**

Boring No.	Depth (ft)	Matrix	C5-C8 (TPH-GRO)	C9-C12 (TPH DRO)	C9-C10 (Oil and Grease)	Ethylene Glycol	Propylene Glycol
B-65-01	0-2'	Soil	NS	NS	BRL	7.15	BRL
B-65-01	2-4'	Soil	NS	NS	NS	NS	NS
B-65-01	4-6'	Soil	NS	NS	NS	NS	NS
B-65-01	6-8'	Soil	BRL	BRL	NS	NS	NS
B-65-02	0-2'	Soil	NS	NS	NS	4.54	BRL
B-65-02	2-4'	Soil	NS	NS	NS	NS	NS
B-65-02	4-6'	Soil	NS	NS	NS	NS	NS
B-65-02	6-8'	Soil	BRL	BRL	NS	NS	NS
B-65-03	0-2'	Soil	NS	NS	NS	BRL	BRL
B-65-03	2-4'	Soil	NS	NS	NS	NS	NS
B-65-03	4-6'	Soil	NS	NS	NS	NS	NS
B-65-03	6-8'	Soil	0.40 J	16	NS	NS	NS
B-65-04	0-2'	Soil	NS	NS	NS	BRL	BRL
B-65-04	2-4'	Soil	NS	NS	NS	NS	NS
B-65-04	4-6'	Soil	NS	NS	NS	NS	NS
B-65-04	6-8'	Soil	BRL	6.0 J	NS	NS	NS
B-65-04	4-6'	Water	BRL	BRL	NS	BRL	BRL
Regulatory Concentrations							
TPH Action Levels		Soil	10	40	250	56	56
NC 2L		Water	4.2	42	NS	14	14

Units in mg/kg for soils
and mg/L for water

J: The analyte was positively identified but the value is estimated below the reporting limit.

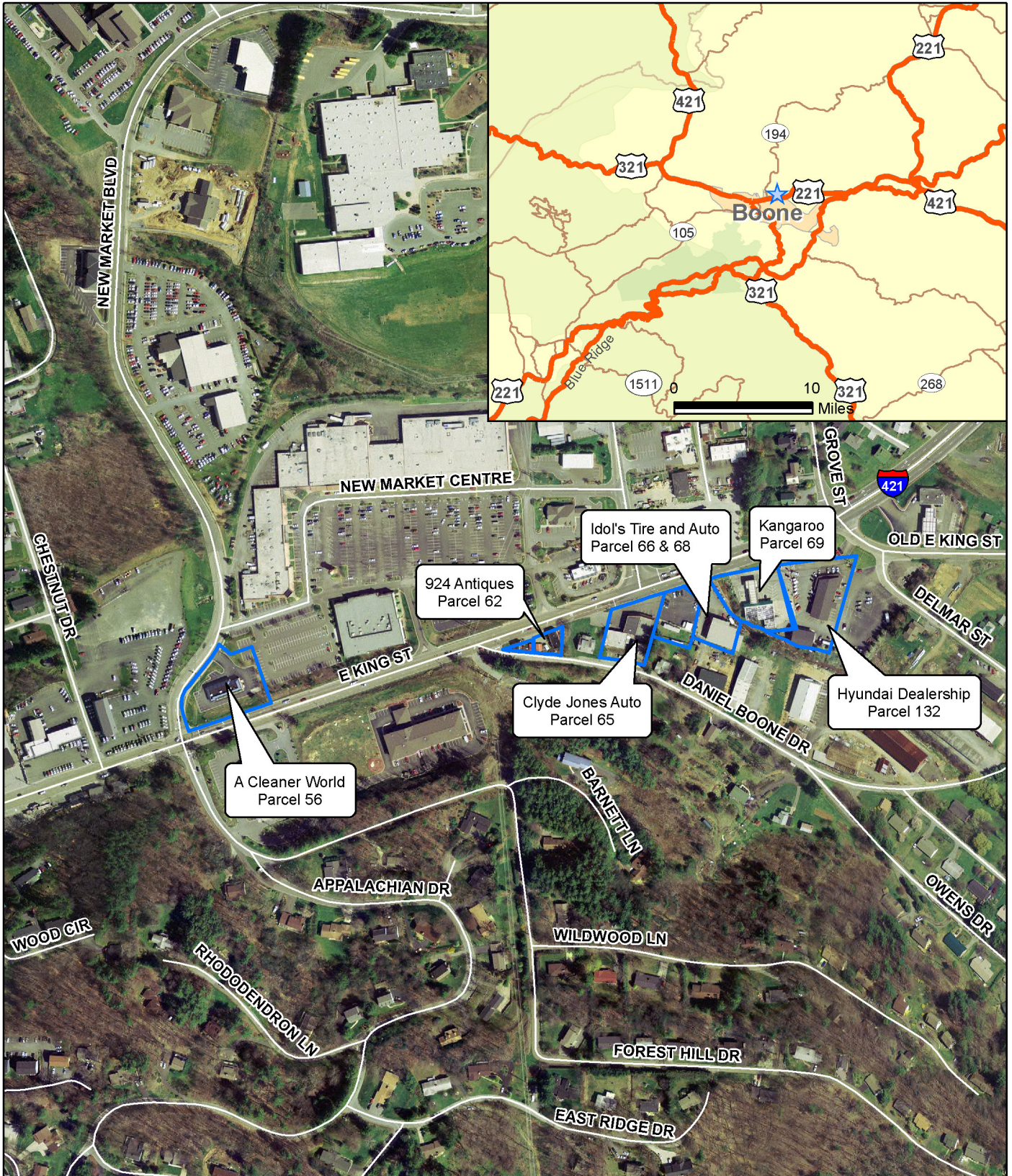
mg/kg = parts per million

BRL - Below Reporting Limit

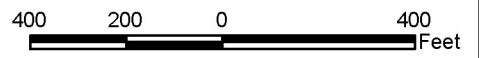
NS - Not Sampled

Listed Regulatory Concentrations are from UST Section Guidelines

FIGURES



Source: 1. Watauga County GIS,
<http://www.wataugacounty.org/gis/index.asp>



Scale: 1:4,800

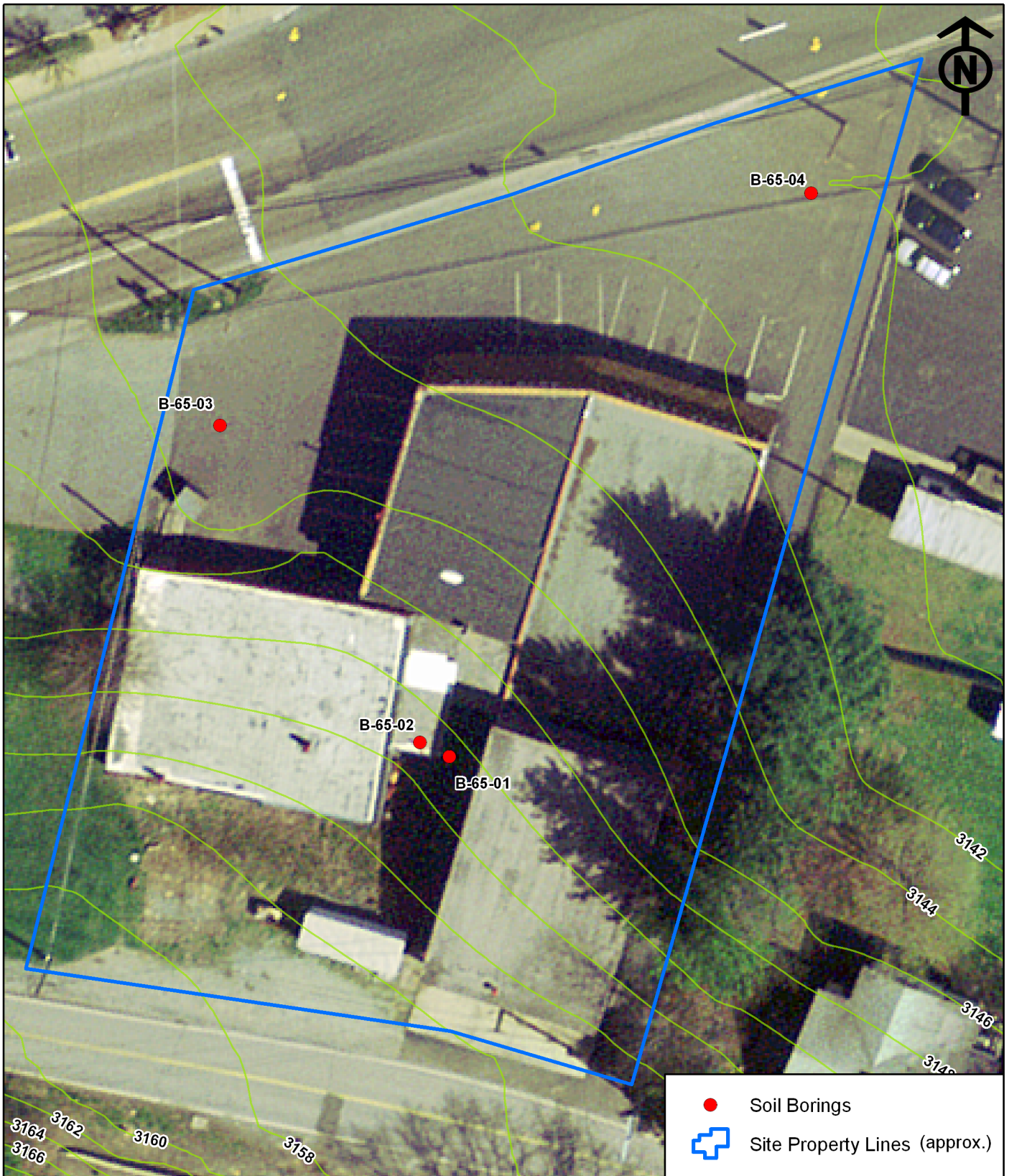


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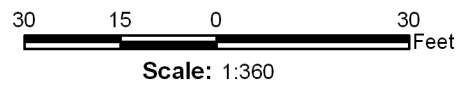
State Project No. U-4020
 Watauga County, North Carolina

VICINITY MAP

Figure 1



Source: 1. Watauga County GIS,
<http://www.wataugacounty.org/gis/index.asp>



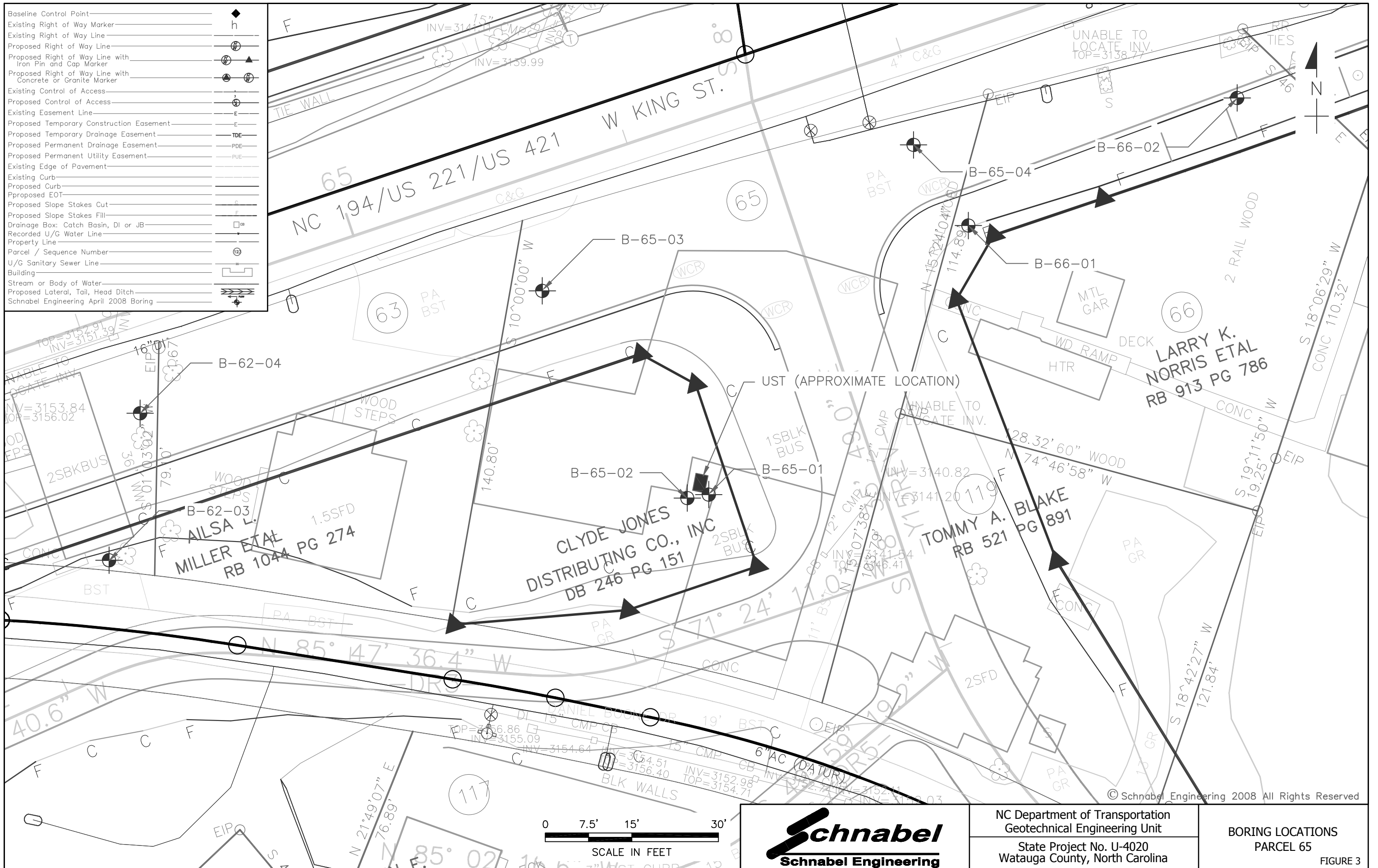
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 Watauga County, North Carolina

SITE MAP
 PARCEL 65

Figure 2

Baseline Control Point	◆
Existing Right of Way Marker	h
Existing Right of Way Line	—
Proposed Right of Way Line	—
Proposed Right of Way Line with Iron Pin and Cap Marker	⊙
Proposed Right of Way Line with Concrete or Granite Marker	⊙
Existing Control of Access	—
Proposed Control of Access	—
Existing Easement Line	E
Proposed Temporary Construction Easement	—
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Utility Easement	PUE
Existing Edge of Pavement	—
Existing Curb	—
Proposed Curb	—
Proposed EOT	—
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Drainage Box: Catch Basin, DI or JB	□
Recorded U/G Water Line	—
Property Line	—
Parcel / Sequence Number	⑬
U/G Sanitary Sewer Line	—
Building	—
Stream or Body of Water	—
Proposed Lateral, Tail, Head Ditch	—
Schnabel Engineering April 2008 Boring	—



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 Watauga County, North Carolina

BORING LOCATIONS
 PARCEL 65
 FIGURE 3



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APPENDIX A
Photographs

Parcel 65, Clyde Jones Auto



APPENDIX B
Geophysics Report

May 2, 2008

Mr. Cyrus Parker
NCDOT, Geotechnical Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

Via email (pdf)

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 65
Schnabel Engineering Project No. 07210023.07

Dear Mr. Parker:

This letter contains our report on the geophysical surveys we conducted on the subject property. The report includes one 8.5x11 color figure and two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on March 12 and March 21, 2008, in the accessible areas of Parcel 65 (Clyde Jones Distributing Property, Clyde Jones Auto) under our 2007 contract with the NCDOT. Parcel 65 is located on the south side of US 421 (King Street) at the NC 194 intersection. 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 areas of reinforced concrete and anomalous EM readings not attributed to cultural features. 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.

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 linear anomalies probably caused by buried utilities, reinforced concrete, and anomalies caused by known site features (Figures 2 and 3). GPR surveys along the southern edge of the building indicated the presence of a possible UST near the innermost corner of the building. 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 1 to 2 feet below ground surface and is about 3 feet in diameter and about 5 feet long, equivalent to a capacity of approximately 270 gallons.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 65 of Project U-4020 in Boone, NC indicates the following:

- The geophysical data indicate the presence of a possible UST on Parcel 65. The possible UST is about 270-gallon capacity and is buried about 1 to 2 feet below ground surface.

5.0 LIMITATIONS

These services have been performed and this report prepared for 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,

A handwritten signature in blue ink, appearing to read "J. Strohmeyer".

Jeremy S. Strohmeyer, P.G.
Project Manager

A handwritten signature in blue ink, appearing to read "Edward D. Billington".

Edward D. Billington, P.G.
Senior Vice President

JW/JS/NB

Attachment: Figures (3)

FILE: G:\2007 PROJECTS\07210023 (NCDOT 2007 GEOPHYSICAL SERVICES)\PHASE 07 (U-4020 - WATAUGA COUNTY)\REPORT\NCDOT (GOEPHYSICS & PSA)\PARCEL 65\REPORT ON PARCEL 65.DOC



Parcel 65 – Clyde Jones Auto, looking north
UST: 3' x 5'



Parcel 65 – Clyde Jones Auto, looking north
UST: 3' x 5'

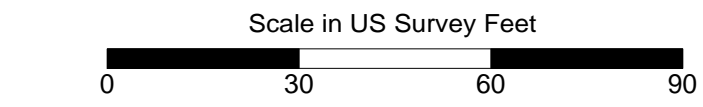
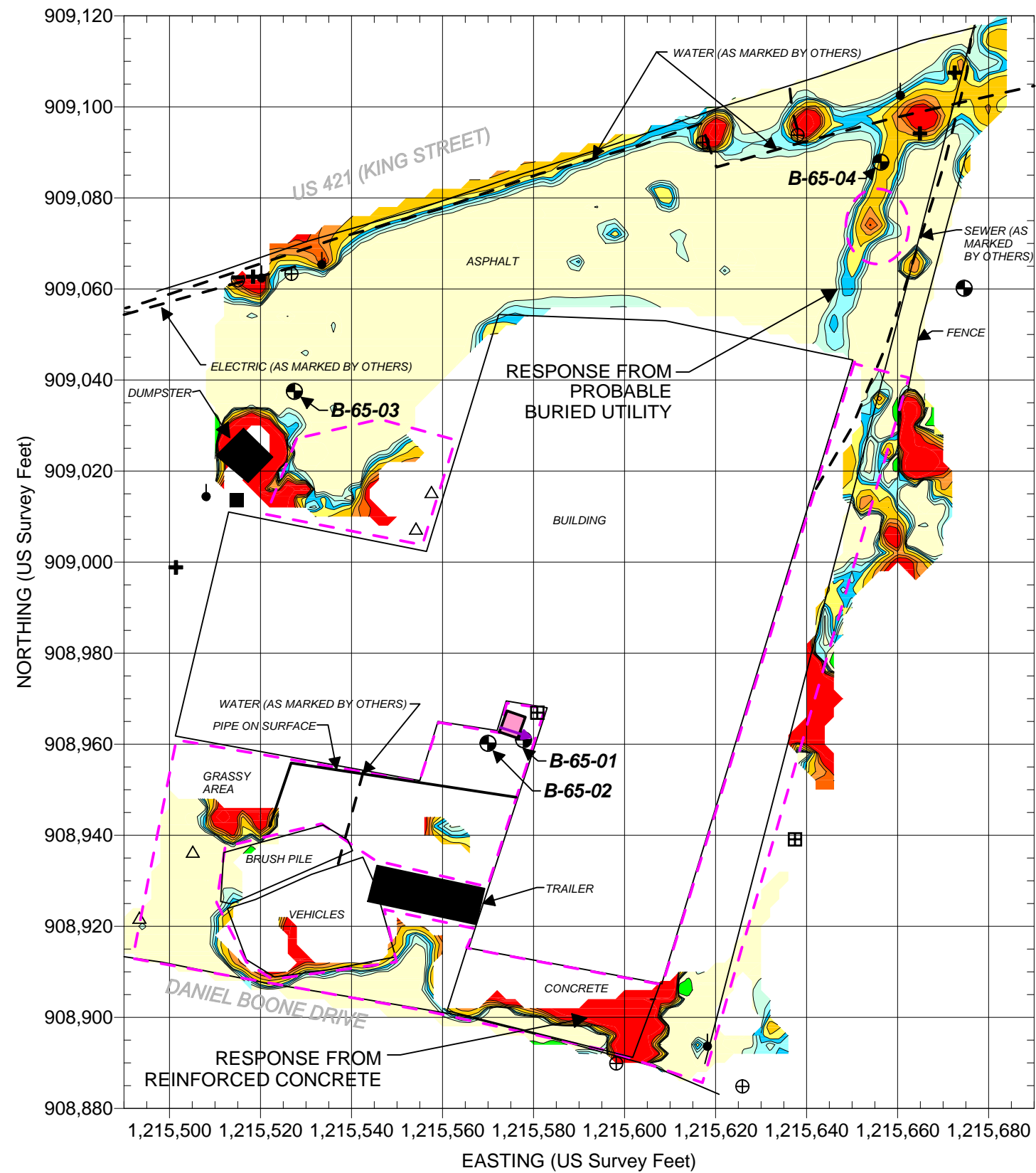


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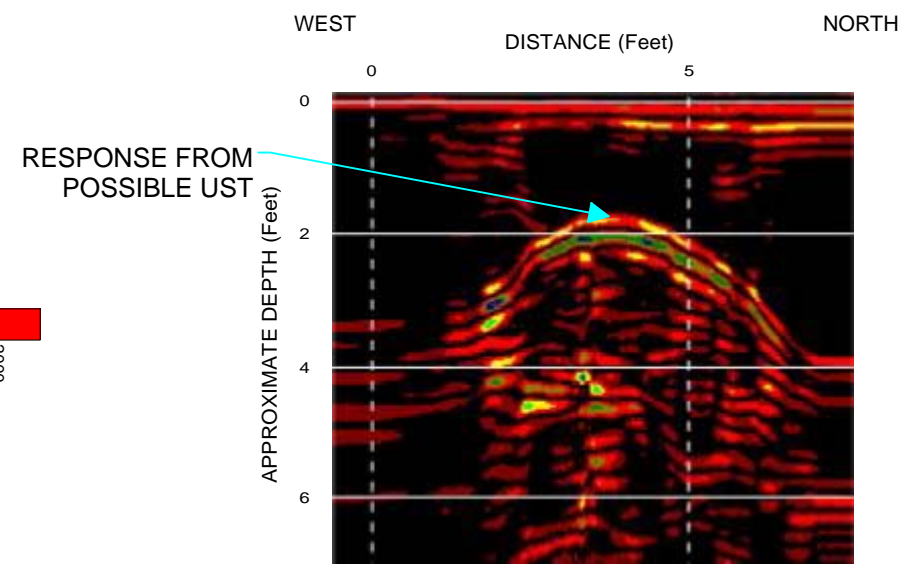
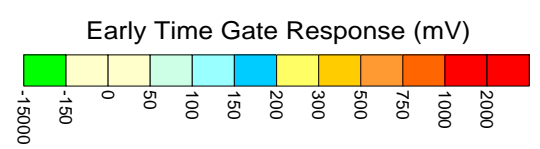
State Project No. U-4020
Watauga County, North Carolina

PARCEL 65
PHOTOS OF POSSIBLE
UST LOCATION

FIGURE 1



EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	BORING LOCATION
	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

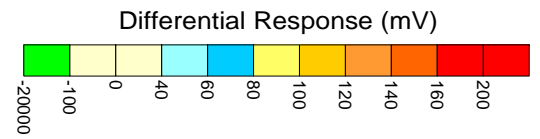
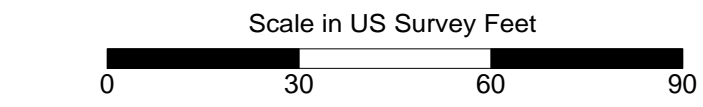
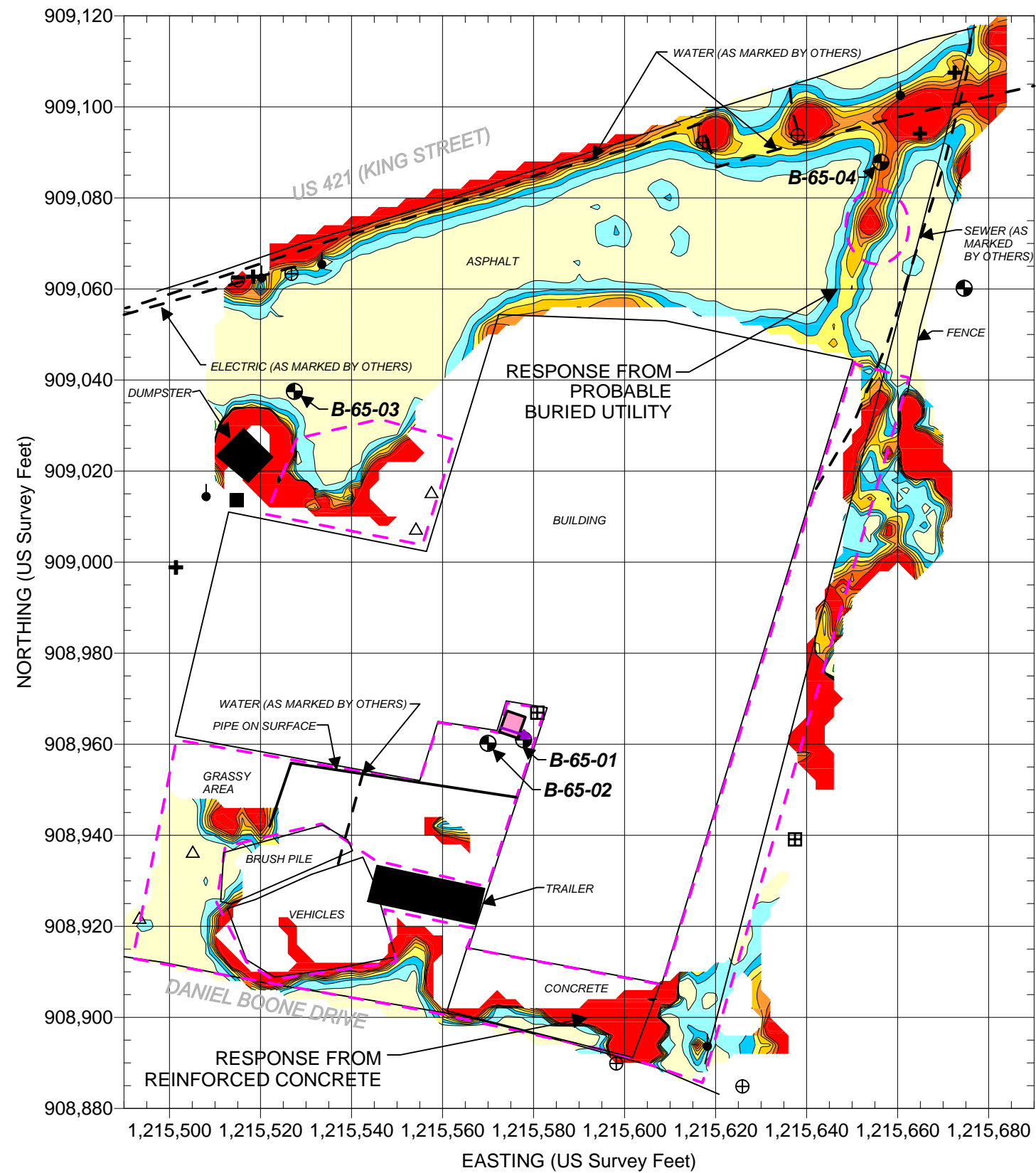


Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on March 12, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on March 21, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

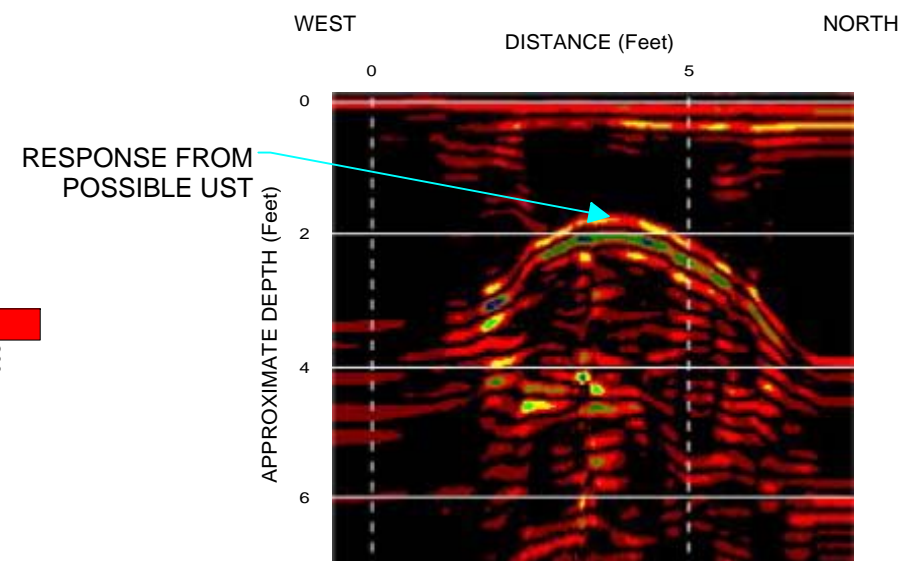


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Watauga County, North Carolina

**PARCEL 65
EM61 EARLY TIME
GATE RESPONSE**
FIGURE 2



EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	BORING LOCATION
	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 12, 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 21, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.



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Watauga County, North Carolina

**PARCEL 65
EM61 DIFFERENTIAL
RESPONSE**

FIGURE 3

APPENDIX C
Soil Boring Logs



**HAND
AUGER
LOG**

Project: NCDOT Preliminary Site Assessments
Watauga County
Boone, North Carolina

Hand Auger Number: **B-65-01**
Contract Number: 7210023.07
Sheet: 1 of 1

Contractor: Subsurface Environmental Investigations
Statesville, NC

Contractor Foreman: Walt Davis

Schnabel Representative: Ben Bradley

Equipment: AMS Hand Auger

Method: Hand Auger

Dates Started: 4/1/08 **Finished:** 4/1/08

X: 1215938 ft **Y:** 909192 ft

Ground Surface Elevation: 3151± (ft) **Total Depth:** 5.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
After Drilling	4/1	10:54 AM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRA TUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.2	Topsoil		3150.8					
	FILL, sampled as sandy silt, moist, brownish gray	FILL						
2.0	FILL, sampled as sandy silt, moist, dark yellowish brown, estimated <5% coarse grained sand	FILL	3149.0			S-1 and S-2, AUGER	PID = 0 ppm	
4.0	SILTY SAND, dry, light brown, estimated 15 - 25% rock fragments, probable RESIDUAL material	SM	3147.0				PID = 0 ppm	
5.0			3146.0		5	S-3, AUGER	PID = 0 ppm	

Bottom of Hand Auger at 5.0 ft.
Auger refusal at 5.0 ft.
Boring terminated at auger refusal.
Boring backfilled with bentonite upon completion.

TEST BORING LOG BORELOGS:GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 5/21/08



**HAND
AUGER
LOG**

Project: NCDOT Preliminary Site Assessments
Watauga County
Boone, North Carolina

Hand Auger Number: B-65-02
Contract Number: 7210023.07
Sheet: 1 of 1

Contractor: Subsurface Environmental Investigations
Statesville, NC

Contractor Foreman: Walt Davis

Schnabel Representative: Ben Bradley

Equipment: AMS Hand Auger

Method: Hand Auger

Dates Started: 4/1/08 **Finished:** 3/31/08

X: 1215896 ft **Y:** 909149 ft

Ground Surface Elevation: 3152± (ft) **Total Depth:** 8.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
After Drilling	4/1	10:54 AM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRA TUM	SAMPLING		TESTS	REMARKS
					DEPTH	DATA		
0.2	Topsoil		3151.8					
	PROBABLE FILL, sampled as sandy silt, moist, brownish gray	FILL						
2.0	PROBABLE FILL, sampled as silty sand, dry, light brown, estimated <5% rock fragments	FILL	3150.0			S-1, AUGER	PID = 0 ppm	
					5		PID = 0 ppm	
6.0	SILTY SAND, moist, gray, estimated <5% rock fragments, probable RESIDUAL material	SM	3146.0				PID = 0 ppm	
8.0			3144.0			S-2, AUGER	PID = 0 ppm	

Bottom of Hand Auger at 8.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite upon completion.

TEST BORING LOG BORELOGS:GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 5/21/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessments
Watauga County
Boone, North Carolina

Geo Probe Number: **B-65-03**
Contract Number: 7210023.07
Sheet: 1 of 1

Contractor: Subsurface Environmental Investigations
Statesville, NC
Contractor Foreman: Walt Davis
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 6610DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 4/1/08 **Finished:** 4/1/08
X: 1215880 ft **Y:** 909131 ft
Ground Surface Elevation: 3144± (ft) **Total Depth:** 8.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	4/1	11:18 AM	7.8'	---	---	

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRA TUM	SAMPLING		TESTS	REMARKS
					DEPTH	DATA		
0.3	Asphalt		3143.2					
2.0	SILTY SAND, dry, dark gray, estimated <5% mica, estimated <5% rock fragments	SM	3141.5			S-1	PID = 0 ppm	
4.0	SANDY SILT, moist, light brown, probable RESIDUAL material	ML	3139.5		5		PID = 0 ppm	
6.0	PARTIALLY WEATHERED ROCK, sampled as silty sand, moist, light brown	PWR	3137.5				PID = 0 ppm	
8.0			3135.5			S-2	PID = 0 ppm	

Bottom of Geo Probe at 8.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite upon completion.

TEST BORING LOG BORELOGS:GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 5/21/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessments
Watauga County
Boone, North Carolina

Geo Probe Number: **B-65-04**
Contract Number: 7210023.07
Sheet: 1 of 1

Contractor: Subsurface Environmental Investigations
Statesville, NC

Contractor Foreman: Walt Davis

Schnabel Representative: Ben Bradley

Equipment: Geoprobe 6610DT

Method: Geoprobe,
Macrocore

Hammer Type: NA

Dates Started: 4/1/08 **Finished:** 4/1/08

X: 1215829 ft **Y:** 909136 ft

Ground Surface Elevation: 3140± (ft) **Total Depth:** 8.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ∇	4/1	11:49 AM	5.0'	---	5.0'

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRA TUM	SAMPLING		TESTS	REMARKS
					DEPTH	DATA		
0.3	Asphalt		3139.7					
	SILTY SAND, dry, dark gray, estimated <5% mica, estimated <5% rock fragments	SM						
2.0	SILTY SAND, moist, light brown, probable RESIDUAL material	SM	3138.0			S-1	PID = 0 ppm	
4.0	SANDY SILT, moist, dark gray, probable RESIDUAL material	ML	3136.0				PID = 0 ppm	
6.0	SILTY SAND, wet, gray, probable RESIDUAL material, <5% quartzite fragments <3mm	SM	3134.0			S-2, S-3	PID = 0 ppm	
8.0			3132.0				PID = 0 ppm	

Bottom of Geo Probe at 8.0 ft.
Boring terminated at selected depth.
Boring backfilled with bentonite upon completion.

TEST BORING LOG BORELOGS:GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 5/21/08

APPENDIX D
Soil Boring GPS Coordinates

**SOIL BORING GPS COORDINATES
NCDOT U-4020, WATAUGA COUNTY**

Soil Boring GPS Coordinates		
Boring Identification	Easting	Northing
	X	Y
B-65-01	1215938	909192
B-65-02	1215896	909149
B-65-03	1215880	909131
B-65-04	1215829	909136

* NC State Plane 1983 System, NC 3200 Zone,
NAD 83 Datum, US Survey Feet

APPENDIX E
Prism Lab Report



Case Narrative

Date: 04/18/08
Company: N. C. Department of Transportation
Contact: Ben Bradley
Address: c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Client Project ID: NCDOT Parcel 65
Prism COC Group No: G0408096
Collection Date(s): 04/01/08
Lab Submittal Date(s): 04/03/08

Client Project Name Or No: Clyde Jones Auto, Boone, NC WBS

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report, Quality Control and a Subcontracted Laboratory Report with corresponding Chain-of-Custody totaling 25 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

Glycol analyses subcontracted to GCAL. Laboratory report is attached.

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Date Reviewed by: Robbi A. Jones
Signature: *Robbi A. Jones*
Review Date: 04/18/08

Project Manager: Robbi A. Jones
Signature: *Robbi A. Jones*
Approval Date: 04/18/08

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



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

Laboratory Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Soil

Client Sample ID: B-65-01
 Prism Sample ID: 210428
 COC Group: G0408096
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	78.7	%			1	SM2540 G	04/07/08 13:45	mbarber	
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Nonhalogenated Organics by GC/FID

Subcontract Report	See Attached				1	8015B			
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* Analysis Note for Subcontract Report: Subcontracted to NC Certified Lab ID 618.

Oil and Grease by Soxhlet Extraction

Oil and Grease	BRL	mg/kg	44	44	1	9071A	04/17/08 10:00	smanivanh	Q31844
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	04/10/08 22:42	jvoget	Q31647
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Sample Preparation:			25.4 g	/	1 mL	3545	04/09/08 10:00	wconder	P21297
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Surrogate	% Recovery	Control Limits
o-Terphenyl	68	49 - 124

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	1.3	0.026	1	8015B	04/08/08 20:22	wbradley	Q31561
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Surrogate	% Recovery	Control Limits
aaa-TFT	69	55 - 129

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

Laboratory Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Soil

Client Sample ID: B-65-01
 Prism Sample ID: 210428
 COC Group: G0408096
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Soil

Client Sample ID: B-65-02
 Prism Sample ID: 210429
 COC Group: G0408096
 Time Collected: 04/01/08 10:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	82.2	%			1	SM2540 G	04/07/08 13:45	mbarber	
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Nonhalogenated Organics by GC/FID

Subcontract Report	See Attached				1	8015B			
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* Analysis Note for Subcontract Report: Subcontracted to NC Certified Lab ID 618.

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.4	1.4	1	8015B	04/10/08 23:18	jvogel	Q31647
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Sample Preparation: 25.44 g / 1 mL 3545 04/09/08 10:00 wconder P21297

Surrogate	% Recovery	Control Limits
o-Terphenyl	67	49 - 124

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	1.2	0.025	1	8015B	04/08/08 20:54	wbradley	Q31561
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Surrogate	% Recovery	Control Limits
aaa-TFT	85	55 - 129

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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.

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Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Soil

Client Sample ID: B-65-03
 Prism Sample ID: 210430
 COC Group: G0408096
 Time Collected: 04/01/08 11:30
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	77.6	%			1	SM2540 G	04/07/08 13:45	mbarber	
----------------	------	---	--	--	---	----------	----------------	---------	--

Nonhalogenated Organics by GC/FID

Subcontract Report	See Attached				1	8015B			
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* Analysis Note for Subcontract Report: Subcontracted to NC Certified Lab ID 618.

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	16	mg/kg	8.9	1.4	1	8015B	04/10/08 23:54	jvogel	Q31647
-----------------------------	----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 25.23 g / 1 mL 3545 04/09/08 10:00 wconder P21297

Surrogate	% Recovery	Control Limits
o-Terphenyl	78	49 - 124

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	0.40 J	mg/kg	1.3	0.027	1	8015B	04/08/08 21:26	wbradley	Q31561
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Surrogate	% Recovery	Control Limits
aaa-TFT	66	55 - 129

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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.

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Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
 SC Certification No. 99012
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Laboratory Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Soil

Client Sample ID: B-65-04
 Prism Sample ID: 210431
 COC Group: G0408096
 Time Collected: 04/01/08 12:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	77.2	%			1	SM2540 G	04/07/08 13:45	mbarber	
----------------	------	---	--	--	---	----------	----------------	---------	--

Nonhalogenated Organics by GC/FID

Subcontract Report	See Attached				1	8015B			
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* Analysis Note for Subcontract Report: Subcontracted to NC Certified Lab ID 618.

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	6.0 J	mg/kg	9.0	1.5	1	8015B	04/11/08 0:30	jvogel	Q31647
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Sample Preparation:			25.12 g	/	1 mL	3545	04/09/08 10:00	wconder	P21297
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Surrogate	% Recovery	Control Limits
o-Terphenyl	74	49 - 124

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	1.3	0.027	1	8015B	04/10/08 15:46	wbradley	Q31561
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One surrogate recovery was outside of the control limits. The analysis was repeated, with no improvement in recovery. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
aaa-TFT	52 #	55 - 129

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

Laboratory Report

04/18/08

N. C. Department of Transportation
Attn: Ben Bradley
c/o Schnabel Engineering
11 A Oak Branch Drive
Greensboro, NC 27407

Project Name: Clyde Jones Auto,
Boone, NC
Project ID: NCDOT Parcel 65
Project No.: WBS #7210023.07
Sample Matrix: Soil

Client Sample ID: B-65-04
Prism Sample ID: 210431
COC Group: G0408096
Time Collected: 04/01/08 12:00
Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
-----------	--------	-------	--------------	-----	-----------------	--------	--------------------	---------	----------

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto,
 Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07
 Sample Matrix: Water

Client Sample ID: B-65-04
 Prism Sample ID: 210432
 COC Group: G0408096
 Time Collected: 04/01/08 12:00
 Time Submitted: 04/03/08 8:30

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

Subcontract Report **See Attached** 1 See Attached

* Analysis Note for Subcontract Report: Subcontracted to NC Certified Lab ID 618.

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) **BRL** mg/L 1.0 0.074 1 8015B 04/07/08 12:21 jvogel Q31539

Sample Preparation: 1000 mL / 2 mL 3510C 04/05/08 11:00 grappaccioli P21258

Surrogate	% Recovery	Control Limits
o-Terphenyl	96	50 - 144

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) **BRL** mg/L 0.20 0.031 1 8015B 04/04/08 13:19 wbradley Q31497

Surrogate	% Recovery	Control Limits
aaa-TFT	85	57 - 132

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 wet-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Level II QC Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto, Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07

COC Group Number: G0408096
 Date/Time Submitted: 4/3/2008 8:30

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank									
	Result	RL	Control Limit	Units					QC Batch ID
Gasoline Range Organics (GRO)	ND	0.2	<0.1	mg/L					Q31497
Laboratory Control Sample									
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organics (GRO)	1.774	2		mg/L	89	60-138			Q31497
Matrix Spike									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			QC Batch ID
210432 Gasoline Range Organics (GRO)	1.784	2		mg/L	89	69-130			Q31497
Matrix Spike Duplicate									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210432 Gasoline Range Organics (GRO)	1.910	2		mg/L	96	69-130	7	0 - 24	Q31497

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank									
	Result	RL	Control Limit	Units					QC Batch ID
Diesel Range Organics (DRO)	ND	1	<0.5	mg/L					Q31539
Laboratory Control Sample									
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	1.59	2		mg/L	80	53-135			Q31539
Matrix Spike									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			QC Batch ID
210435 Diesel Range Organics (DRO)	1.83	2		mg/L	92	51-145			Q31539
Matrix Spike Duplicate									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210435 Diesel Range Organics (DRO)	1.57	2		mg/L	79	51-145	15	0 - 22	Q31539

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

Level II QC Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto, Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07

COC Group Number: G0408096
 Date/Time Submitted: 4/3/2008 8:30

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	
Gasoline Range Organics (GRO)	ND	1	<0.5	mg/kg	Q31561

Laboratory Control Sample							QC Batch ID
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
Gasoline Range Organics (GRO)	1.603	2	mg/kg	80	64-124		Q31561

Matrix Spike							QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
210434 Gasoline Range Organics (GRO)	1.659	2	mg/kg	83	37-126		Q31561

Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210434 Gasoline Range Organics (GRO)	1.367	2	mg/kg	68	37-126	19	0 - 34	Q31561

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q31647

Laboratory Control Sample							QC Batch ID
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
Diesel Range Organics (DRO)	84.2	80	mg/kg	105	55-109		Q31647

Matrix Spike							QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
210414 Diesel Range Organics (DRO)	69.4	80	mg/kg	87	50-117		Q31647

Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210414 Diesel Range Organics (DRO)	77.5	80	mg/kg	97	50-117	11	0 - 24	Q31647

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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

Level II QC Report

04/18/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Clyde Jones Auto, Boone, NC
 Project ID: NCDOT Parcel 65
 Project No.: WBS #7210023.07

COC Group Number: G0408096
 Date/Time Submitted: 4/3/2008 8:30

Oil and Grease by Soxhlet Extraction, method 9071A

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Oil and Grease	ND	35	<17.5	mg/kg	Q31844

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Oil and Grease	5259	5249	mg/kg	100	80-120	Q31844

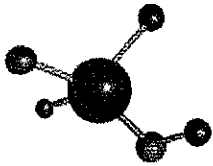
Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
210408 Oil and Grease	24951	24793	mg/kg	101	80-120	Q31844

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210408 Oil and Grease	25235	24504	mg/kg	103	80-120	1	0 - 20	Q31844

See Case Narrative



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Prism Laboratories Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION

Robbi Jones

PROJECT ID

G0408096

LABORATORY REPORT NUMBER

208040444

DATE

04/17/2008

Primary Data Review By

Curtis Ekker
MCA 361 361 02 03 2008

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.
- GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 04/14/2008

GCAL Report 208040444



Deliver To Prism Laboratories Inc.
PO BOX 240543
Charlotte, NC 28224
706-529-6364

Attn Robbi Jones

Project G0408096

CASE NARRATIVE

Client: Prism Laboratories Inc. **Report:** 208040444

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



Curtis Ekker
Mon Apr 14 11:58:15 2008

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 208040444

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20804044401	210428	Solid	04/01/2008 11:00	04/04/2008 10:06
20804044402	210429	Solid	04/01/2008 10:45	04/04/2008 10:06
20804044403	210430	Solid	04/01/2008 11:30	04/04/2008 10:06
20804044404	210431	Solid	04/01/2008 12:00	04/04/2008 10:06
20804044405	210432	Water	04/01/2008 12:00	04/04/2008 10:06

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20804044402	210429	Solid	04/01/2008 10:45	04/04/2008 10:06

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	7150	4040	1430	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20804044403	210430	Solid	04/01/2008 11:30	04/04/2008 10:06

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	4540	3920	1380	ug/Kg

GCAL ID 20804044401	Client ID 210428 <i>B-65-01</i>	Matrix Solid	Collect Date/Time 04/01/2008 11:00	Receive Date/Time 04/04/2008 10:06
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SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 04/11/2008 10:15	By SMH	Analytical Batch 371039
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CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	1360U	3840	1360	ug/Kg
57-55-6	Propylene Glycol	6560U	15400	6560	ug/Kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID 20804044402	Client ID 210429 <i>B-65-02</i>	Matrix Solid	Collect Date/Time 04/01/2008 10:45	Receive Date/Time 04/04/2008 10:06
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SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 04/11/2008 12:31	By SMH	Analytical Batch 371039
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CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	7150	4040	1430	ug/Kg
57-55-6	Propylene Glycol	6900U	16200	6900	ug/Kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20804044403	210430 <i>B-65-03</i>	Solid	04/01/2008 11:30	04/04/2008 10:06

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2008 12:49	SMH	371039

CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	4540	3920	1380	ug/Kg
57-55-6	Propylene Glycol	6690U	15700	6690	ug/Kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID 20804044404	Client ID 210431 <i>B-65-04</i>	Matrix Solid	Collect Date/Time 04/01/2008 12:00	Receive Date/Time 04/04/2008 10:06
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SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 04/11/2008 13:06	By SMH	Analytical Batch 371039
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CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	1460U	4150	1460	ug/Kg
57-55-6	Propylene Glycol	7080U	16600	7080	ug/Kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID 20804044405	Client ID 210432 <i>B-65-04</i>	Matrix Water	Collect Date/Time 04/01/2008 12:00	Receive Date/Time 04/04/2008 10:06
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SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 04/09/2008 12:39	By SMH	Analytical Batch 370880
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CAS#	Parameter	Result	RDL	MDL	Units
107-21-1	Ethylene Glycol	212U	1000	212	ug/L
57-55-6	Propylene Glycol	762U	5000	762	ug/L

General Chromatography Quality Control Summary

Analytical Batch Prep Batch	370880 N/A	Client ID GCAL ID	MB370880 591805	LCS370880 591806 LCS 04/09/2008 10:36 Water	
		Sample Type Analytical Date Matrix	Method Blank 04/09/2008 10:18 Water		
SW-846 8015B					
107-21-1	Ethylene Glycol	Units	ug/L	Spike Added	Control Limits % R
57-55-6	Propylene Glycol	212U 762U	212 762	25000 25000	88 88
		Result		Result	% R
				22000 22100	88 88

Analytical Batch Prep Batch	370880 N/A	Client ID GCAL ID	U43TITTLEV 20804071001	591211MSD 591808 MSD 04/09/2008 12:22 Water	
		Sample Type Analytical Date Matrix	SAMPLE 04/09/2008 11:11 Water		
SW-846 8015B					
107-21-1	Ethylene Glycol	Units	ug/L	Spike Added	Control Limits % R
		0.00	212	25000	86
		Result		Result	% R
				21600	86
				23600	94
				RPD Limit	9 40

Analytical Batch Prep Batch	371039 N/A	Client ID GCAL ID	MB371039 592710	LCS371039 592711 LCS 04/11/2008 09:40 Solid	
		Sample Type Analytical Date Matrix	Method Blank 04/11/2008 09:22 Solid		
SW-846 8015B					
107-21-1	Ethylene Glycol	Units	ug/Kg	Spike Added	Control Limits % R
57-55-6	Propylene Glycol	1100U 5340U	1100 5340	62500 62500	82 88
		Result		Result	% R
				51000 54900	82 88

General Chromatography Quality Control Summary

Analytical Batch Prep Batch	371039 N/A	Client ID		210428		590753MS		590753MSD						
		GCAL ID	Sample Type	Analytical Date	Matrix	Units	ug/kg	Spike Added	Result	% R	Control Limit	% R	RPD	Limit
107-21-1	Ethylene Glycol	20804044401	SAMPLE	04/11/2008 10:15	Solid	0.00	1080	62500	49800	80	50 - 150	85	6	40
57-55-6	Propylene Glycol					0.00	5240	62500	58800	94	40 - 140	92	3	40



PRISM LABORATORIES, INC.
 Full Service Analytical & Environmental Solutions
 4415 Springbrook Road • P.O. Box 280249 • Charlotte, NC 28224-0540
 Phone: 704.536-6064 • Fax: 704.536-1100

Client Company Name: Carroll County, Inc.
 Report To/Contact Name: Robert Jones
 Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
 Email (Yes) (No) Email Address: _____
 EDD Types PDF Excel Other _____
 Site Location Name: _____
 Site Location Physical Address: _____

CHAIN OF CUSTODY RECORD

Project Name: Carroll County
 Short Hold Analysis: (Yes) (No) (No) **UST Project: (Yes) (No) (No)**
 *Please ATTACH any project specific reporting (QC LEVEL II III IV) provisions and/or QC Requirements
 Invoice # _____
 Address: _____

Purchase Order No./Billing Reference: _____
 Requested Date Del: Day 2 Days 3 Days 4 Days 5 Days
 Working Days 2-4 Days 3-5 Days 4-6 Days 5-6 Days
 Samples received after 15:00 will be processed next business day.
 Fair and true as based on Bureau data, tank drawings and labels.
 SEE INVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
 REFERRED BY PRISM LABORATORIES, INC. TO CLIENT

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL WATER OR BLDG)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				TYPE SEE BELOW	NO.	SIZE				
210428	4/1/08	11:00	Soil	EG	1	4oz	None	X	P-65-01	1
210429		10:45						X	P-65-02	2
210430		11:30						X	P-65-03	3
210431		12:00						X	P-65-04	4
210432			GWS	MOA	2	40ml		X	P-65-04	5

TO BE FILLED IN BY CLIENTS/SAMPLING PERSONNEL
 Certification: NELAC _____ USACE _____ FL _____ NC _____ X
 SC _____ OTHER _____ N/A _____
 Water Chlorinated: YES _____ NO _____ X
 Sampled Upon Collection: YES _____ NO _____ X

Sampled By (Print Name): _____
 Signature: _____
 Received By (Signature): _____
 Received For (Print Name): _____
 Date: 4/1/08
 Time: 10:00
 Additional Comments: **GCAL**

Matrix: _____
 Analytical Method: _____
 Other: _____
 Landfill: _____
 CERCLA: _____
 RCRA: _____
 Solid Waste: _____
 Drinking Water: _____
 Groundwater: _____
 Other: _____

Stamp: **LAB USE ONLY**
 Samples (IN) (OUT) (Open) (Closed) YES () NO ()
 Received ON DATE: _____
 PROPER PRESERVATION INDICATED? YES () NO ()
 SAMPLES WITH NO HOLDING TISSUE? YES () NO ()
 CUSTOMER SIGNATURE: _____
 YOU MUST SIGN WITHOUT RESPACEY!
 PRISM LAB USE ONLY

PRISM USE ONLY
 Site: _____
 Site: Departure Temp: _____
 Field Tech: _____
 Date: _____

NOTES: ALL SAMPLES SHOULD BE TAPED SHUT WITH CUSTODY TAPES FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST GOS UNTIL RECEIVED AT THE LABORATORY.
 CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)
 SEE INVERSE 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: 704/525-0499

Client Company Name: Schnabel
Report To/Contact Name: Ben Bradley
Reporting Address:

Phone: 262-74-9456 Fax (Yes) (No):
Email (Yes) (No) Email Address: bradley@prism-lab.com
EDD Type: PDF Excel Other
Site Location Name: Clyde Jones Auto
Site Location Physical Address: 4000 E. NC

CHAIN OF CUSTODY RECORD

PAGE OF QUOTE # TO ENSURE PROPER BILLING:

Project Name: 7710023.07 UST Project: (Yes) (No)
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II 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 Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
Received ON WET ICE? Temp A.O
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

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				
B-65-01	4-1-08	1100	Soil	6	5			X X X X X	* changed water sampling to B-65-04	210423 210424 210430 210431 210432
B-65-02	4-1-08	1045	Soil	6	4			X X X X X		
B-65-03	4-1-08	1130	Soil	6	4			X X X X X		
B-65-04	4-1-08	1200	Soil	6	4			X X X X X		
B-65-04	4-1-08	1200	Water	A, VOA	5			X X X X X		

PRISM USE ONLY
PRESS DOWN FIRMLY - 3 COPIES

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

Sampler's Signature: Ben Bradley Sampled By (Print Name) Ben Bradley Affiliation
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 no charges for any changes after analyses have been initialized.
Relinquished By: (Signature) Ben Bradley Received By: (Signature) David M... Date 4-2-08 Military/Hours 1335
Relinquished By: (Signature) Ben Bradley Received By: (Signature) David M... Date 4-2-08 Military/Hours 830
Relinquished By: (Signature) Ben Bradley Received By: (Signature) David M... Date 4-2-08 Military/Hours 830
Additional Comments:
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
GROUNDWATER: NC SC NC SC NC SC
DRINKING WATER: NC SC NC SC NC SC
SOLID WASTE: NC SC NC SC NC SC
RCRA: NC SC NC SC NC SC
CERCLA: NC SC NC SC NC SC
OTHER: 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)
7
SEE REVERSE FOR TERMS & CONDITIONS
ORIGINAL