North Carolina Department of Transportation

PRELIMINARY SITE ASSESSMENT FOR PARCELS 66 & 68

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 22, 2008 Revised June 10, 2008 Project Number 07210023.07



11-A Oak Branch Drive, Greensboro, North Carolina 27407 Phone (336) 274-9456; Fax (336) 274-9486

North Carolina Department of Transportation PRELIMINARY SITE ASSESSMENT FOR PARCELS 66 & 68 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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- 3.0 FIELD METHODOLOGY
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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 the proposed property acquisition area (Study Area) identified by NCDOT on Parcels 66 and 68. The property is located at 1032 East King Street and is occupied by Street Smart Auto Sales and Idol's Tire and Auto, currently owned by Jerry Idol (Figure 1). These parcels are located on the south side of East King Street just east of the NC 194 intersection. The property line and topography are shown on Figure 2. The approximate NCDOT project limits that delineate the property acquisition area are shown on Figure 3.

The scope of work executed at the site was performed in general accordance with our cost proposal dated March 3, 2008 and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on March 4, 2008 under contract 7000008010, dated May 31, 2007.

2.0 BACKGROUND AND SITE DESCRIPTION

No structures are located on the right-of-way of Parcels 66 and 68. The surface of the right-of-way is covered with an asphalt covered parking lot. Several utilities cross the site including buried water, sewer pipes, and overhead electric lines. Photographs of the Study Area are presented in Appendix A. This preliminary site assessment is for the investigation of the right-of-way along East King Street.

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 mobilized a geophysical crew to the site on March 12, 2008 and performed an electromagnetic survey of the subsurface in the proposed right-of-way area within the parcel. The electromagnetic survey equipment (EM61-MK2) identified various magnetic anomalies within the Study Area. The Schnabel geophysical crew returned to the Study Area on March 21, 2008 to perform ground penetrating radar (GPR) survey with 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 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 Parcels 66 and 68 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, diesel range volatile organic carbons (TPH-GRO and TPH-DRO), Method 8260 Organics, and Oil and Grease. Water samples were collected to test for total petroleum hydrocarbon gasoline, diesel range volatile organic carbons (TPH-GRO and TPH-DRO), and Method 8260 Organics. Four soil borings designated B-66-01, B-66-02, B-68-03, and B-68-04 were advanced by Subsurface Environmental Investigations of Statesville, NC along East King Street 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. The borings drilled within the Study Area were advanced utilizing a track-mounted Geoprobe[®] (Model 6610-DT) with direct push probe technology. 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 the Geoprobe borings using a MacroCore[®] sampler fitted with a new, single-use, four foot long disposable polyvinyl chloride (PVC) liner. A portion of each 2-foot interval was placed in a separate resealable plastic bag. These bags were sealed and placed at ambient temperature for field screening with a MiniRAE 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 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. Samples from the borings were obtained from the bottom of each boring above the water table. Water samples were collected at B-68-04 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 Method 8260 Organics. An Oil and Grease soil sample was collected at B-68-03 which is in the down-gradient part of the site.

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

Soil and water samples were collected from Geoprobe borings and analyzed for TPH-DRO, TPH-GRO, Method 8260 Organics, and Oil and Grease. TPH-DRO was detected in soil sample B-66-02 from the 0 to 2 foot depth interval and from B-68-04 from the 4 to 6 foot depth interval at estimated concentrations of 11mg/kg and 12 mg/kg, respectively. Results from the remaining soil and water samples submitted for analysis did not reveal the presence of TPH-GRO, TPH-DRO, Method 8260 Organics, or Oil and Grease at levels above the laboratory analytical reporting limits. Laboratory

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

5.0 <u>CONCLUSIONS</u>

The geophysical survey conducted at the site did not indicate the presence of probable USTs on Parcels 66 and 68. The geophysical survey did indicate the presence of buried utility lines and conduits. Four soil borings B-66-01, B-66-02, B-68-03, and B-68-04 were advanced to evaluate potential petroleum and oil and grease contamination within the Study Area, and to document soil conditions.

Laboratory analytical results showed that soil samples from Geoprobe borings B-66-01 and B-68-03 and the water sample from B-68-04 were below the laboratory analytical reporting limits. TPH-DRO was detected in soil sample B-66-02 from the 0 to 2 foot depth interval and from B-68-04 from the 4 to 6 foot depth interval at estimated concentrations of 11mg/kg and 12 mg/kg, respectively. These results are below the TPH Action Level of 40 mg/kg for DRO (*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*).

6.0 <u>RECOMMENDATIONS</u>

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 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 <u>LIMITATIONS</u>

This Preliminary Site Assessment was prepared for the use of the North Carolina Department of Transportation. The scope of work performed at the site is limited to the tasks described in our cost proposal dated March 3, 2008. This report 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.

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TABLES

TABLE 1 SAMPLING INTERVALS AND FIELD VOLATILE MEASUREMENTS PARCELS 66 & 68 NCDOT U-4020, WATAUGA COUNTY

Sample Depth	Soil Borings								
Below Ground	B-66-01	B-66-02	B-68-03	B-68-04					
Surface	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	ND*	ND	ND	ND					

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 PARCELS 66 & 68 NCDOT U-4020, WATAUGA COUNTY

Boring No.	Depth (ft)	Matrix	TPH-GRO	TPH-DRO	Oil and Grease	Method 8260 Organics
B-66-01	0 - 2	Soil	NS	NS	NS	NS
B-66-01	2 - 4	Soil	NS	NS	NS	NS
B-66-01	4 - 6	Soil	NS	NS	NS	NS
B-66-01	6 - 8	Soil	BRL	BRL	NS	NS
B-66-02	0 - 2	Soil	BRL	11	NS	NS
B-66-02	2 - 4	Soil	NS	NS	NS	NS
B-66-02	4 - 6	Soil	NS	NS	NS	NS
B-66-02	6 - 8	Soil	NS	NS	NS	NS
B-68-03	0 - 2	Soil	BRL	BRL	BRL	BRL
B-68-03	2 - 4	Soil	NS	NS	NS	NS
B-68-03	4 - 6	Soil	NS	NS	NS	NS
B-68-03	6 - 8	Soil	NS	NS	NS	NS
B-68-04	0 - 2	Soil	NS	NS	NS	NS
B-68-04	2 - 4	Soil	NS	NS	NS	NS
B-68-04	4 - 6	Soil	BRL	12	NS	BRL
B-68-04	6 - 8	Soil	NS	NS	NS	NS
B-68-04	4 - 6	Water	BRL	BRL	NS	BRL
	•	Regulatory	Concentrations		•	
TPH Action Levels		Soil	10	40	250	Various
NC 2L		Water	4.2	42	NS	Various

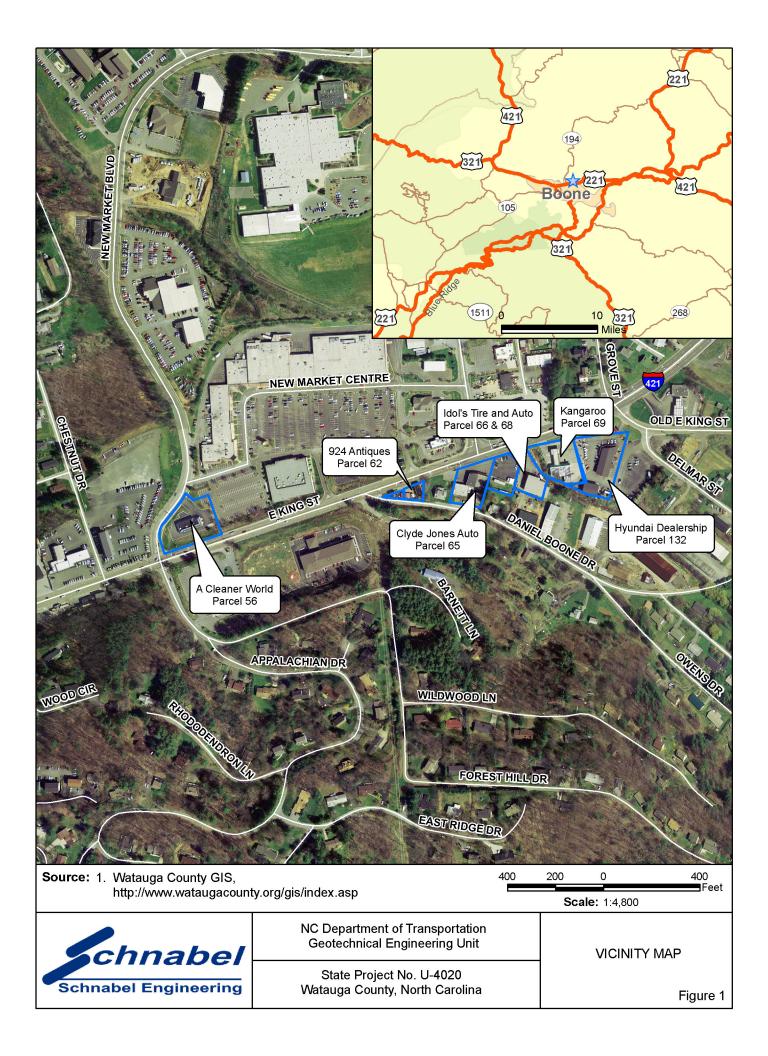
Units in mg/kg for soils and mg/L for water

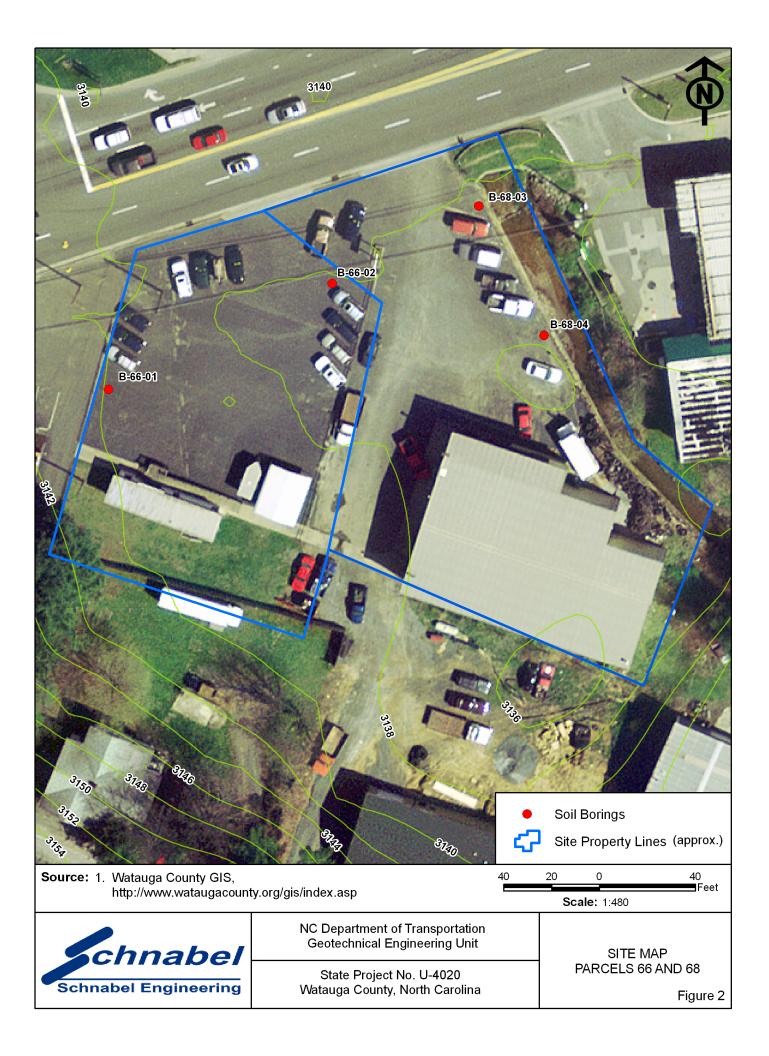
J: The analyte was positively identified but the value is estimated below the reporting limit.

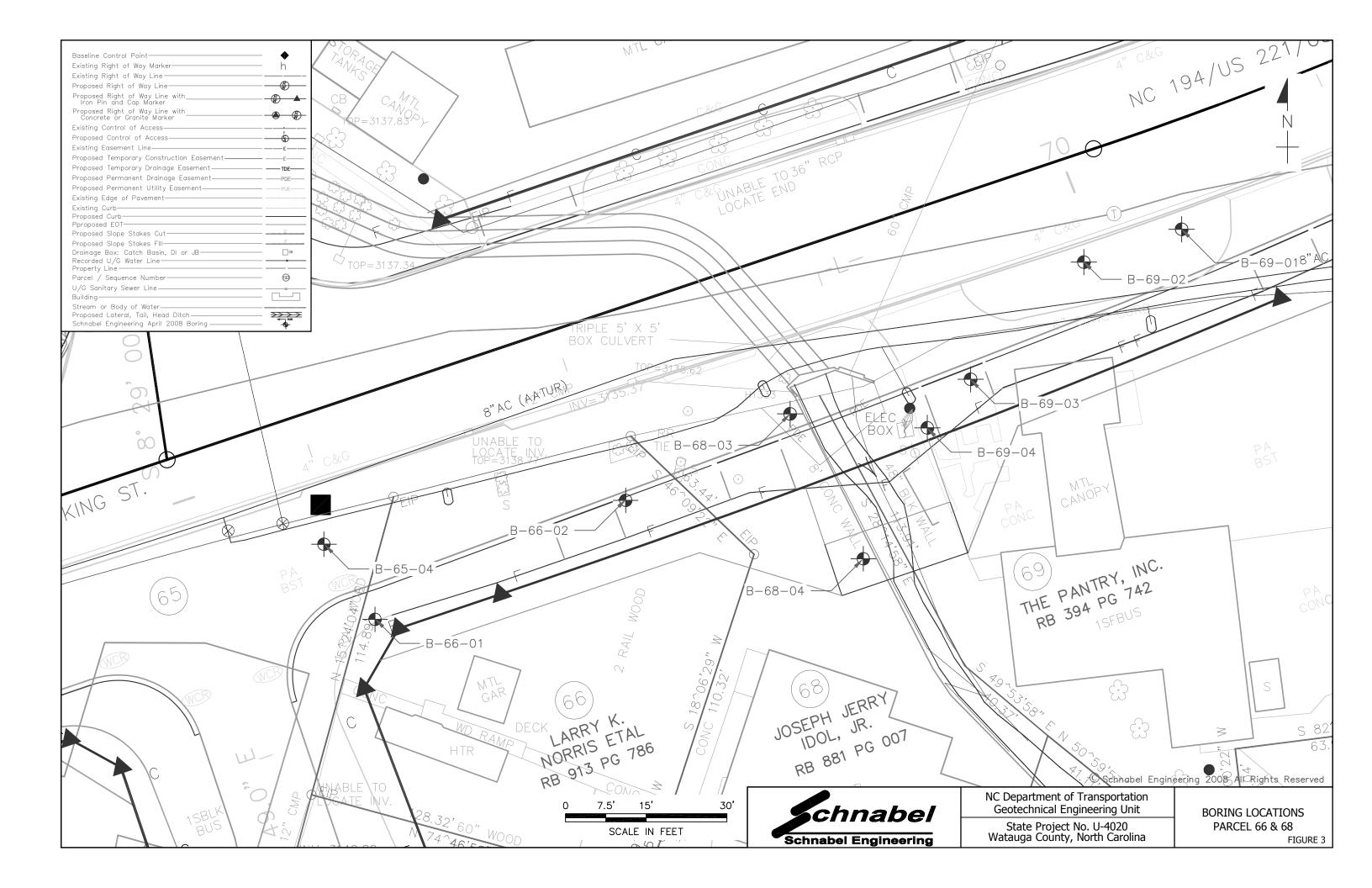
mg/kg = parts per million BRL - Below Reporting Limit NS - Not Sampled

Listed Regulatory Concentrations are from UST Section Guidelines

FIGURES

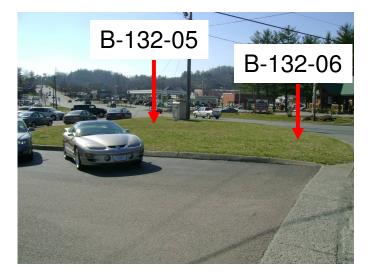


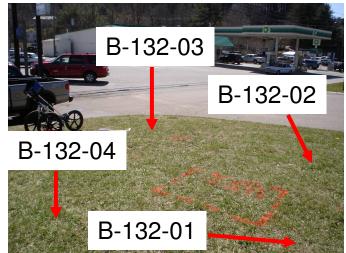




APPENDIX A Photographs

Parcel 132, Hyundai Dealership









<u>APPENDIX B</u> Geophysics Report



11-A Oak Branch Drive Greensboro, NC 27407

Phone (336) 274-9456 Fax (336) 274-9486 www.schnabel-eng.com

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 Parcels 66 & 68Schnabel Engineering Project No. 07210023.07

Dear Mr. Parker:

This letter contains our report on the geophysical surveys we conducted on the subject properties. The report includes two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on March 12 and March 21, 2008, in the accessible areas of the proposed right-of-way (ROW) sections of Parcels 66 and 68 (Larry Norris & Joseph Idol, Jr. Properties, Idol's Tire and Auto, Street Smart Auto Sales) under our 2007 contract with the NCDOT. Parcels 66 and 68 are located on the south side of US 421 (King Street) just east of the NC 194 intersection and Parcel 65, in Boone, NC. The work was conducted at the location indicated by the NCDOT to support their environmental assessment of the subject parcels. 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 sites.

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 electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument, and ground-penetrating radar surveys 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 two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 1 and 2. The EM61 early time gate results are plotted on Figure 1. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 2 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 indicate linear anomalies probably caused by buried utilities, an anomaly probably caused by reinforced concrete, and anomalies probably caused by known cultural features. An area of reinforced concrete and anomalies not attributed to known cultural features in the EM61 data were investigated using GPR. The anomalies not attributed to known cultural features in the EM61 data were likely the result of vehicles parked close to the

survey area. The GPR data did not indicate the presence of UST's in the area surveyed on Parcels 66 and 68.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcels 66 and 68 of Project U-4020 in Boone, NC indicates the following:

• The geophysical data do not indicate the presence of UST's in the areas surveyed.

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.

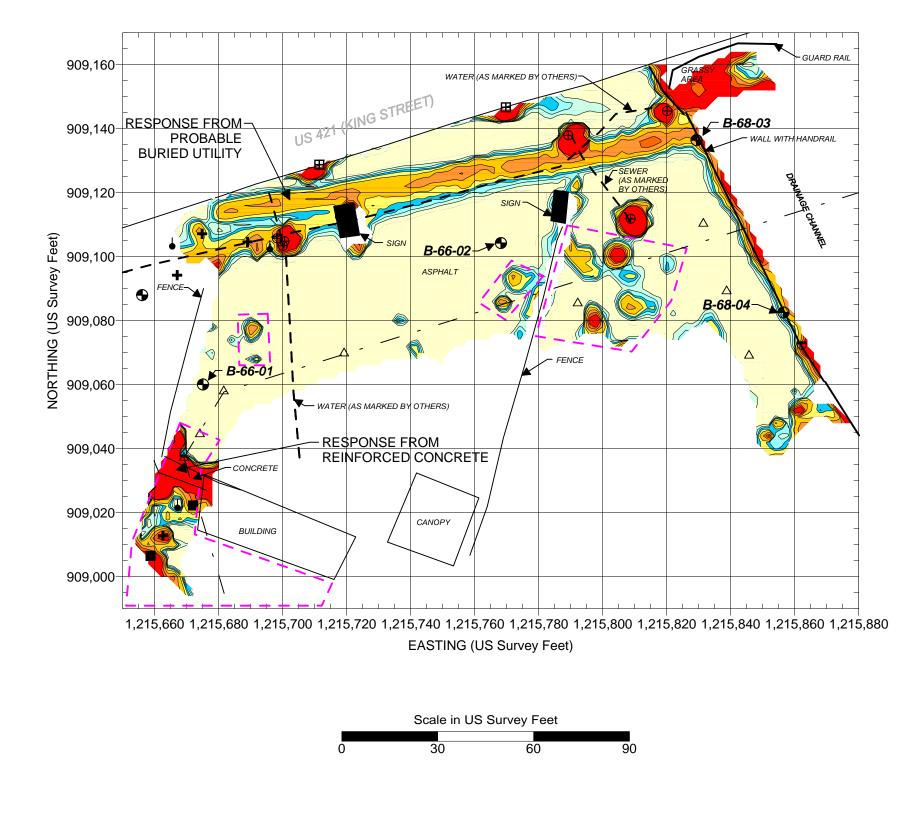
Thank you for the opportunity to serve you on this project. Please call if you need additional information or have any questions.

Sincerely,

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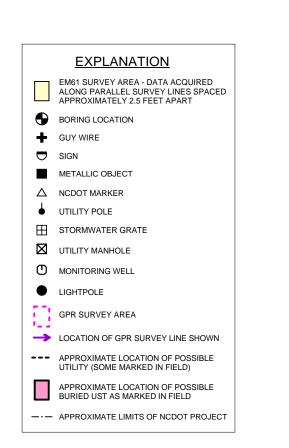
Jeremy S. Strohmeyer, P.G. Project Manager

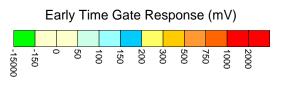
Edward D. Billington, P.G. Senior Vice President



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.





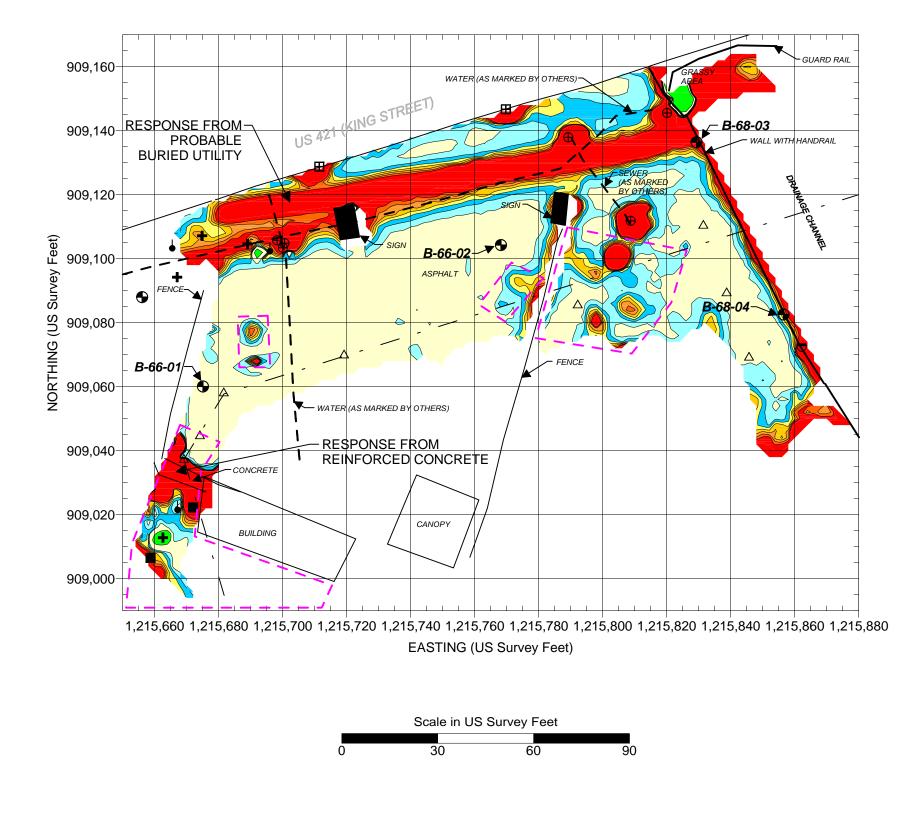


NC Department of Transportation Geotechnical Engineering Unit

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

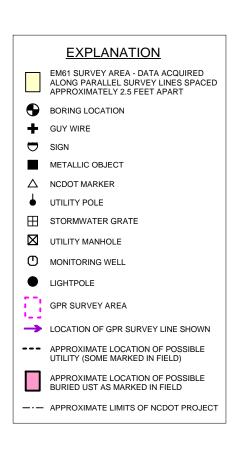
PARCELS 66 AND 68 EM61 EARLY TIME GATE RESPONSE

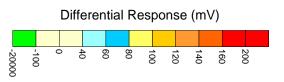
FIGURE 1



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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PARCELS 66 AND 68 EM61 DIFFERENTIAL RESPONSE

FIGURE 2

 \bigwedge

APPENDIX C Soil Boring Logs

	GEO PROBE Schnabel Engineering Project: NCDOT Preliminary Site Assessments Watauga County Boone, North Carolina								Cont	ract	be Numbe t Number:		66-01	
Contrac	tor: Subsurface Environmental Statesville, NC	Investigation	S						Groun Date	dwater C		ervations Depth	Casing	Caved
Contrac	tor Foreman: Walt Davis					En	counte	red 🛛		1:35 F		7.0'	Casing	Caved
	el Representative: Ben Bradley						counte		- 4/1	1.55 F	IVI	7.0		
	ent: Geoprobe 6610DT													
Method	: Geoprobe, Macrocore													
Hamme	r Type: NA													
	Started: 4/1/08 Finished: 4	/1/08												
X: 1215	856 ft Y: 909082 ft													
Ground	Surface Elevation: 3140± (ft)	Total Dep	th: 8.0) ft				1						
DEPTH (ft)	MATERIAL DESCRIPTI	ON	SYMB	BOL		.EV ft)	STRA TUM	: DEPTH	SAMPLING			TESTS	RE	MARKS
0.3	Asphalt				31	39.5								
	SILTY SAND, dry, dark gray, <5% mica, estimated <5% roo fragments	estimated ck	SM			-	-							
2.0 -					-31:	37.8-								
	SANDY SILT, moist, gray, pro RESIDUAL material	bable									PIC	0 = 0 ppm		
_			ML		-	-	-							
4.0 -	SANDY SILT, moist, dark gra	N.			-31:	35.8-	-				ЫГ) = 0 ppm		
	probable RESIDUAL material	y ,										о – о ррпп		
			ML		-		-	- 5 -						
5														
6.0 -	SANDY SILT, moist, grayish t probable RESIDUAL material	orown,			+31:	33.8-					PIC	0 = 0 ppm		
		Ţ	ML		_	-	-							
8.0 -					⊥ _{31:}	31.8-					DIF) = 0 ppm		
	Bottom of Geo Probe at 8.0 ft Boring terminated at selected Boring backfilled with bentonit	depth.	letion.						01]	<u>, 12</u>	<u> </u>]	
5														
5														

	GEOChnabelGEOPROBELOG	-	NCDOT Wataug Boone,	ja Co	ounty		e Ass	essmen	its	Contra	Probe Numbe act Number: : 1 of 1		-66-02 .07
Contrac	tor: Subsurface Environmental Statesville, NC	Investigatior	IS								servations		
Contrac	tor Foreman: Walt Davis								Date	Time	Depth	Casing	Caved
Schnabe	el Representative: Ben Bradley					Enc	ounte	red	4/1	2:09 PN	M 6 In		
Equipme	ent: Geoprobe 6610DT												
Method:	Geoprobe, Macrocore												
Hammer	r Type: NA												
	Started: 4/1/08 Finished: 4	/1/08											
X: 1215	768 ft Y: 909104 ft												
Ground	Surface Elevation: 3138± (ft)	Total Dep	oth: 8.0) ft									
DEPTH (ft)	MATERIAL DESCRIPT		SYME		ELE (ft)		STRA TUM	S DEPTH		4	TESTS	RE	MARKS
0.2	Asphalt				3137	7 5							
- 0.2	SILTY SAND, dry, dark gray, <5% rock fragments	estimated	SM		_	-							
2.0 -	SANDY SILT, moist, dark gra estimated <5% terra cotta, pro RESIDUAL material	y, bbable			-3135	5.7-			S-1	F	PID = 0 ppm		
			ML		-	-							
4.0 -	SILTY SAND, wet, gray, estin 10% rock fragments, probable ALLUVIAL material	nated 5 -			-3133	3.7-			_	F	PID = 0 ppm		
						_		- 5 -					
			SM		; ;	-				F	PID = 0 ppm		
						-							
					3129	9.7				F	PID = 0 ppm		
	Bottom of Geo Probe at 8.0 ft Boring terminated at selected Boring backfilled with bentonit	depth.	pletion.										

	GEO PROBE Project: NCDOT Prelimin Schnabel Engineering LOG Boone, North Ca						sessmer	nts	Geo Probe Number: B-68-C Contract Number: 7210023.07 Sheet: 1 of 1			
	Contractor: Subsurface Environmental Investigations							Ground	dwater Obse			
Contract	Statesville, NC tor Foreman: Walt Davis							Date	Time	Depth	Casing	Caved
	el Representative: Ben Bradley				Er	counte	red	4/1	2:56 PM	6 In		
	ent: Geoprobe 6610DT											
	Geoprobe,											
	Macrocore											
Hammer	r Type: NA											
Dates	Started: 4/1/08 Finished: 4/	/1/08										
X: 12156	675 ft Y: 909060 ft											
Ground	Surface Elevation: 3138± (ft)	Total Dep	th: 8.0) ft								
DEPTH					ELEV	STRA	9	SAMPLING				
(ft)	MATERIAL DESCRIPTI	ON	SYME		(ft)	тим	DEPTH			TESTS	REMARKS	
0.2	Topsoil SANDY SILT, moist, dark grav				3137.4							
	estimated 15 - 25% rock frage	y, nents,										
-	probable RESIDUAL material		ML			-						
2.0 -					-3135.6	-						
	GRAVEL, moist, probable ALI material	LUVIAL		0				S-1, S-2,	S-3 PIE	0 = 0 ppm		
				000								
				60		1						
				000								
						-						
				000								
				Part								
			GP	00		1	- 5 -					
				0								
- 12				ŀÒ		-	- +		DIE	0 = 0 ppm		
				0						b = 0 ppm		
				٥Ŏ			F 1					
				Po								
8.0				00	-3129.6		L					
	Bottom of Geo Probe at 8.0 ft.											
	Boring terminated at selected	depth.										
	Boring backfilled with bentonit	e upon comp	pletion.									

		EO Project		CDOT /ataug				Site Ass	sessme	ents	5			be Numbe		68-04
		OG					Carolin	a				Cont Shee	ract t: 1	of 1	7210023	.07
Contrac	tor: Subsurface Environ Statesville, NC	mental Investiga	ations								Ground Date	lwater O Time		ervations Depth	Casing	Caved
	tor Foreman: Walt Davis						En	counte	ered 🗸	Z	4/1	3:36 P	M	5.0'		
	el Representative: Ben E	Bradley								-	., .					
	ent: Geoprobe 6610DT : Geoprobe,															
wethou.	Macrocore															
Hamme	r Type: NA									_						
		ned: 4/1/08														
X : 12156	656 ft Y: 909087 ft															
Ground	Surface Elevation: 3136	6± (ft) Total	Depth	n: 8.0	ft			-								
DEPTH	MATERIAL DES	CRIPTION		SYMB			ELEV	STRA		SA	MPLING			TESTS	BE	MARKS
(ft)				•••••	-		(ft)	ТИМ	DEPT	Н	DATA	1				
0.3	Asphalt					3	136.0									
	SANDY SILT, moist, yo probable RESIDUAL m	ellowish brown, naterial														
_				ML		F	-									
2.0 -	SANDY SILT, moist, d	ark grav				+3	134.3-	-			_		סור) = 0 ppm		
	estimated <5% rock fra probable RESIDUAL m	agments,											FIL) = 0 ppm		
	probable RESIDOAL II	IdleIIdl					_		L							
_				ML		F	-				-		PIC	0 = 0 ppm		
_			$\overline{\Delta}$			_	_		- 5 -	_						
6.0 -						4	130.3-									
0.0	SANDY SILT, wet, dar ALLUVIAL material	k gray, probable	•				100.0				S-1, S-2, S	S-3	PIC	0 = 0 ppm		
-				ML			-									
8.0						⊥3	128.3-		L.				PIC) = 0 ppm	}	
	Bottom of Geo Probe a	at 8.0 ft.														
	Boring terminated at se Boring backfilled with b		omole	etion												
	Doning backmod with a		Joinpic													

<u>APPENDIX D</u> Soil Boring GPS Coordinates

SOIL BORING GPS COORDINATES NCDOT U-4020, WATAUGA COUNTY

Soil Boring GPS Coordinates										
Boring Identification	Easting	Northing								
Doning identification	Х	Y								
B-66-01	1215856	909082								
B-66-02	1215768	909104								
B-68-03	1215675	909060								
B-68-04	1215656	909087								

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

<u>APPENDIX E</u> Prism Lab Report



Case Narrative

04/17/08 Date: 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: Prism COC Group No: **Collection Date(s):** Lab Submittal Date(s): NCDOT Parcel 66 G0408093 04/01/08 04/03/08

Client Project Name Or No: Street Smart Auto Sale, Boone, NC

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 4 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data gualifiers are flagged individually on each sample. A key reference for the data gualifiers 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

No Anomalies Reported

Volatile Analysis

See laboratory report for additional comments.

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	Project Manager:	Robbi A. Jones
Signature:	Rollil. Jonen	Signature:	Roth a. Jones-
Review Date:	04/17/08	Approval Date:	04/17/08

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.



04/17/08

N. C. Department of Transportation	Project Name:	Street Smart Auto Sale,	Client Sample ID:	B-66-01		
Attn: Ben Bradley		Boone, NC	Prism Sample ID:	210416		
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 66	COC Group:	G0408093		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	Time Collected:	04/01/08	13:45	
Greensboro, NC 27407	Sample Matrix:	Soil	Time Submitted:	04/03/08	8:30	

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.4	%			1	SM2540 G	04/07/08 13:45	mbarber	
Diesel Range Organics (DRO) by C	GC-FID								
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	04/10/08 15:00	jvogel	Q31647
Sample Preparation:			25	.32 g /	1 mL	3545	04/09/08 10:00	wconder	P21297
					Surrogate	•	% Recovery	Contr	ol Limits
					o-Terphen	yl	62	4	9 - 124
Gasoline Range Organics (GRO) b	v GC-FID							*********	
Gasoline Range Organics (GRO)	BRL	mg/kg	1.3	0.026	1	8015B	04/08/08 16:41	wbradley	Q31508

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	46 #	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.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



Laboratory Report

04/17/08

N. C. Department of Transportation	Project Name:	Street Smart Auto Sale,	Client Sample ID:	B-66-02	
Attn: Ben Bradley		Boone, NC	Prism Sample ID:	210417	
c/o Schnabel Engineering			COC Group:		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	Time Collected:	04/01/08	14:11
Greensboro, NC 27407	Sample Matrix:	Soil	Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.6	%			1	SM2540 G	04/07/08 13:45	mbarber	
Diesel Range Organics (DRO) by (GC-FID								
Diesel Range Organics (DRO)	11	mg/kg	9.0	1.5	1	8015B	04/10/08 15:32	jvogel	Q31647
Sample Preparation:			25	.08g /	1 mL	3545	04/09/08 10:00	wconder	P21297
					Surrogate	•	% Recovery	Cont	rol Limits
					o-Terphen	ıyl	78	4	9 - 124
Gasoline Range Organics (GRO) b Gasoline Range Organics (GRO)	9 <u>y GC-FID</u> BRL	mg/kg	1.3	0.027	1	8015B	04/04/08 22:34	wbradley	Q31508

Surrogate	% Recovery	Control Limits
aaa-TFT	87	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.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



Level II QC Report

04/17/08

N. C. Department of Transportation	Project	Street Smart Auto Sale,	COC Group Number:	G0408093
Attn: Ben Bradley	Name:	Boone, NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 66		
11 A Oak Branch Drive	Project No .:	WBS #7210023.07		
Greensboro, NC 27407				

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

Method Blank									QC Batch
	Result	RL	Control Limit	Units					ID
Gasoline Range Organi (GRO)	ics ND	1	<0.5	mg/kg					Q31508
Laboratory Control Sample	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organi (GRO)	ics 1.945	2		mg/kg	97	64-124			Q31508
Matrix Spike					Recovery	Recovery			QC Batch
Sample ID:	Result	Spike Amour	ot	Units	%	Ranges			ID
210407 Gasoline Range Organi (GRO)	ics 1.868	2		mg/kg	93	37-126			Q31508
Matrix Spike Duplicate			· · · ·	· · · ·	Recovery	Recovery	RPD	RPD	QC Batch
Sample (D:	Result	Spike Amour	nt	Units	%	Ranges %	%	Range %	1D
210407 Gasoline Range Organi (GRO)	ics 1.862	2		mg/kg	93	37-126	0	0 - 34	Q31508

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

Method Blank	Result	RL	Control Limit	Units					QC Batch
	Result	NL.	CONGOLENIN	Units					
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31647
Laboratory Control Sample	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	84.2	80		mg/kg	105	55-109			Q31647
Matrix Spike					Recovery	Recovery			QC Batch
Sample ID:	Result	Spike Amour	ıt	Units	%	Ranges %			ID
210414 Diesel Range Organics (DRO)	69.4	80		mg/kg	87	50-117			Q31647
Matrix Spike Duplicate					Recovery	Recovery	RPD	RPD	QC Batch
Sample ID:	Result	Spike Amour	ət	Units	%	Ranges %	%	Range %	ID
210414 Diesel Range Organics (DRO)	77.5	80		mg/kg	97	50-117	11	0 - 24	Q31647
#-See Case Narrative									

1 A.	§ ⟩	SONNEL NC	PRISM	LAB ID NO.	ଜାତ୍ୟାନ	Glount			 - 3 COPIES	PRISM USE ONLY	lime:	ire Time: tee:	5		SEE REVERSE FOR TERMS & CONDITIONS	ORIGINAL
LAB USE ONLY	Samples INTACT upon arrival? Received ON WET ICE? Temp 21 PROPER PRESERVATIVES Indicated? Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT? VOLATILES recid W/OUT HEADSPACE? PROPER CONTAINERS used?	TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL Certification: NELAC USACE FL NC SC OTHER N/A N/A Water Chlorinated: YES NO Sample Iced Upon Collection: YES NO	ANALYSES REQUESTED	REMARKS					 PRESS DOWN FIRMLY - 3 COPIES		WHours Additional Comments:	Site Departure Time:	β3∆ Mileage:			
CUSTODY RECORD	R BILLING: UST Project: (Yes) (No) ting (QC LEVEL I II III IV)		ANALYS ANALYS	THE OFFICE	××	XX			 Affiliation	sted above. Any changes mus	1 So Cato	Date	iths/ng	ö	CERCLA LANDFILL OTH	lac unc usc D le Organics Analysis (Ze
CHAIN OF CUSTOI	PAGE OF QUOTE # TO ENSURE PROPER BILLING: Project Name:	Purchase Order No./Billing Reference	SAMPLE CONTAINER	*TYPE TIVES SIZE TIVES	61a55 3	6/ars 3			 Sampled Bv (Print Name) R. Prcy/	eed with the changes aft	Ved By (Signature) M .	Received By: (Signature)	ted For Prism Laboratories By:	Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH OUSTODY SEALS FOR TANSPORTATION TO THE LABORATORY SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.	SOLID WASTE: RCRA:	= Tefton-Lined Cap
		Klavel enjern	MATRIX	MILITARY WATER OR HOURS SLUDGE)	1.05 51	1 Soil			 A Sampled Bv	edr authorization for F ager. There will be chi	All and a second	OX30 N C		LD BE TAPED SHUT WITH O Verified Against Coc Un	Vice Olher Control Control Co	
PRISM	Full Service Analytical & Environmental Solutions ok Road • P.O. Box 240543 • Charlotte, NC 2 9-6364 • Fax: 704/525-0409 ny Name: School School A	6 Fax (Yes) (No):- Address Dravly & S Gel Other He ff Dydy A Address: Soan &			4-1-08 1ZH	1-1-08 141			 Bur D. Peal	Chain of Custody is yr he Prism Project Mans	Par Non,	12.08		L SAMPLE COOLERS SHOU	Elivered Aprism Field Service GROUNDWATER:	
	Full Sarvice Analytical & Environmental Solutions Full Sarvice Analytical & Environmental Solutions Phone: 704/529-6364 • Fax: 704/525-0408 Client Company Name: Scholl A	Phone <i>3 Ji-2714_91456_</i> Fax (Yes) (Email (Yes) (No) Email Address <i>Drudl</i> EDD Type: PDFX_ExcelOther Site Location Name: <u>778, 976</u> Site Location Physical Address: <u>50</u>	CILENT	SAMPLE DESCRIPTION	6-66-01	3-66-02			Sampler's Signature	Upon relinquishing, this submitted in writing to the	Relinguished By: (Signature)	Reinsched Bif (Signature)	Reimquished By: (Signature)	Method of Shipment: NOTE: AL SAMPLES		

Case Narrative



Date:04/18/08Company:N. C. Department of TransportationContact:Ben BradleyAddress:c/o Schnabel Engineering11 A Oak Branch DriveGreensboro, NC 27407

Client Project ID:NCPrism COC Group No:G0Collection Date(s):04/Lab Submittal Date(s):04/

NCDOT Parcel 68 G0408097 04/01/08 04/03/08

Client Project Name Or No: Idols Tire & Auto, Boone, NC WBS

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 24 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

No Anomalies Reported

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:	Robpi A. Jones	Project Manager:	Robbi A. Jones
Signature:	Roth a. Jour	Signature:	Rothia. Jam
Review Date:	04/18/08	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.



Laboratory Report

04/18/08

N. C. Department of Transportation Project Name: Idols Tire & Auto, Boone, Client Sample ID: B-68-03 NC Attn: Ben Bradley Prism Sample ID: 210433 Project ID: NCDOT Parcel 68 c/o Schnabel Engineering COC Group: G0408097 Project No .: WBS #7210023.07 11 A Oak Branch Drive Time Collected: 04/01/08 14:50 Sample Matrix: Soil Greensboro, NC 27407 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	75.8	%			1	SM2540 G	04/07/08 13:45	mbarber	
Volatile Organic Compounds by GC		.	74	0 70	4	8060D	04/04/09 16:01	onuccoll	Q31464
1,1,1,2-Tetrachloroethane	BRL	µg/kg	7.4	0.73	1	8260B	04/04/08 16:01		
1,1,1-Trichloroethane	BRL	µg/kg	7.4	0.42	1	8260B	04/04/08 16:01		Q31464
1,1,2,2-Tetrachloroethane	BRL	µg/kg	7.4	0.76	1	8260B	04/04/08 16:01		Q31464
1,1,2-Trichloroethane	BRL	µg/kg	7.4	0.46	1	8260B	04/04/08 16:01		Q31464
1,1-Dichloroethane	BRL.	µg/kg	7.4	0.54	1	8260B	04/04/08 16:01		Q31464
1,1-Dichloroethene	BRL	µg/kg	7.4	0.57	1	8260B	04/04/08 16:01	erussell	Q31464
1,1-Dichloropropene	BRL	µg/kg	7.4	0.66	1	8260B	04/04/08 16:01	erussell	Q31464
1,2,3-Trichlorobenzene	BRL	µg/kg	15	0.82	1	8260B	04/04/08 16:01	erussell	Q31464
1,2,3-Trichloropropane	BRL	µg/kg	7.4	0.66	1	8260B	04/04/08 16:01	erussell	Q31464
1,2,4-Trichlorobenzene	BRL	µg/kg	15	0.71	1	8260B	04/04/08 16:01	erussell	Q31464
1,2,4-Trimethylbenzene	BRL	µg/kg	15	0.57	1	8260B	04/04/08 16:01	erussell	Q31464
1,2-Dibromo-3-chloropropane	BRL	µg/kg	7.4	1.2	1	8260B	04/04/08 16:01	erussell	Q31464
1,2-Dibromoethane (EDB)	BRL	µg/kg	7.4	0.13	1	8260B	04/04/08 16:01	erussell	Q31464
1,2-Dichlorobenzene	BRL	µg/kg	15	0.40	1	8260B	04/04/08 16:01	erussell	Q31464
1,2-Dichloroethane	BRL	µg/kg	7.4	0.74	1	8260B	04/04/08 16:01	erussell	Q31464
1,2-Dichloropropane	BRL	µg/kg	7.4	0.55	1	8260B	04/04/08 16:01	erussell	Q31464
1,3,5-Trimethylbenzene	BRL	µg/kg	15	0.63	1	8260B	04/04/08 16:01	erussell	Q31464
1,3-Dichlorobenzene	BRL	µg/kg	15	0.64	1	8260B	04/04/08 16:01	erusseli	Q31464
1,3-Dichloropropane	BRL	µg/kg	7.4	0.51	1	8260B	04/04/08 16:01	erussell	Q31464
1,4-Dichlorobenzene	BRL	µg/kg	15	0.58	1	8260B	04/04/08 16:01	erussell	Q31464
2,2-Dichloropropane	BRL	µg/kg	7.4	0.37	1	8260B	04/04/08 16:01	erussell	Q31464
2-Chloroethyl vinyl ether	BRL	μg/kg	15	0.55	1	8260B	04/04/08 16:01		Q31464
2-Chlorotoluene	BRL	µg/kg	15	0.55	1	8260B	04/04/08 16:01	erussell	Q31464
2-Hexanone	BRL	µg/kg	74	0.77	1	8260B	04/04/08 16:01		Q31464

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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

NC Project ID: Project No.: Sample Matrix: Soil

Project Name: Idols Tire & Auto, Boone, NCDOT Parcel 68 WBS #7210023.07

Client Sample ID:	B-68-03	
Prism Sample ID:	210433	
COC Group:	G0408097	
Time Collected:	04/01/08	14:50
Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	15	0.39	1	8260B	04/04/08 16:01	erussell	Q31464
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	15	0.74	1	8260B	04/04/08 16:01	erussell	Q31464
Acetone	BRL	µg/kg	30	2.9	1	8260B	04/04/08 16:01	erussell	Q31464
Benzene	BRL	µg/kg	4.5	0.60	1	8260B	04/04/08 16:01	erussell	Q31464
Bromobenzene	BRL	µg/kg	7.4	0.52	1	8260B	04/04/08 16:01	erussell	Q31464
Bromochloromethane	BRL	µg/kg	7.4	0.45	1	8260B	04/04/08 16:01	erussell	Q31464
Bromodichloromethane	BRL	µg/kg	7.4	0.66	1	8260B	04/04/08 16:01	erussell	Q31464
Bromoform	BRL	µg/kg	7.4	0.55	1	8260B	04/04/08 16:01	erussell	Q31464
Bromomethane	BRL	µg/kg	15	0.86	1	8260B	04/04/08 16:01	erussell	Q31464
Carbon disulfide	BRL	µg/kg	15	0.48	1	8260B	04/04/08 16:01	erussell	Q31464
Carbon tetrachloride	BRL	µg/kg	7.4	0.43	1	8260B	04/04/08 16:01	erussell	Q31464
Chlorobenzene	BRL	µg/kg	7.4	0.57	1	8260B	04/04/08 16:01	erussell	Q31464
Chlorodibromomethane	BRL	µg/kg	7.4	0.51	1	8260B	04/04/08 16:01	erussell	Q31464
Chloroethane	BRL	µg/kg	15	0.61	1	8260B	04/04/08 16:01	erussell	Q31464
Chloroform	BRL	µg/kg	7.4	0.55	1	8260B	04/04/08 16:01	erussell	Q31464
Chloromethane	BRL	µg/kg	15	0.52	1	8260B	04/04/08 16:01	erussell	Q31464
cis-1,2-Dichloroethene	BRL	µg/kg	7.4	0.33	1	8260B	04/04/08 16:01	erussell	Q31464
cis-1,3-Dichloropropene	BRL	µg/kg	7.4	0.48	1	8260B	04/04/08 16:01	erussell	Q31464
Dibromomethane	BRL	µg/kg	7.4	0.55	1	8260B	04/04/08 16:01	erussell	Q31464
Dichlorodifluoromethane	BRL	µg/kg	15	1.7	1	8260B	04/04/08 16:01	erussell	Q31464
Ethylbenzene	BRL	µg/kg	7.4	0.52	1	8260B	04/04/08 16:01	erussell	Q31464
Hexachlorobutadiene	BRL	µg/kg	22	0.92	1	8260B	04/04/08 16:01	erussell	Q31464
isopropyl ether (IPE)	BRL	µg/kg	7.4	0.25	1	8260B	04/04/08 16:01	erusseli	Q31464
Isopropylbenzene	BRL	µg/kg	15	0.60	1	8260B	04/04/08 16:01	erusselt	Q31464
m,p-Xylenes	BRL	µg/kg	15	1.0	1	8260B	04/04/08 16:01	erusselt	Q31464
Methyl ethyl ketone (MEK)	BRL	µg/kg	30	2.1	1	8260B	04/04/08 16:01	erussell	Q31464
Methyl t-butyl ether (MTBE)	BRL	µg/kg	7.4	0.43	1	8260B	04/04/08 16:01	erussell	Q31464

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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

NC Project ID: Project No.: Sample Matrix: Soil

Project Name: Idols Tire & Auto, Boone, (NCDOT Parcel 68 WBS #7210023.07

Client Sample ID:	B-68-03	
Prism Sample ID:	210433	
COC Group:	G0408097	
Time Collected:	04/01/08	14:50
Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	15	0.61	1	8260B	04/04/08 16:01	erussell	Q31464
n-Butylbenzene	BRL	µg/kg	22	0.60	1	8260B	04/04/08 16:01	erusseli	Q31464
n-Propylbenzene	BRL	µg/kg	15	0.45	1	8260B	04/04/08 16:01	erussell	Q31464
Naphthalene	BRL	µg/kg	7.4	0.86	1	8260B	04/04/08 16:01	erussell	Q31464
o-Xylene	BRL	µg/kg	7.4	0.45	1	8260B	04/04/08 16:01	erussell	Q31464
p-Isopropyltoluene	BRL	µg/kg	22	0.61	1	8260B	04/04/08 16:01	erussell	Q31464
sec-Butylbenzene	BRL	µg/kg	22	0.49	1	8260B	04/04/08 16:01	erussell	Q31464
Styrene	BRL	µg/kg	7.4	0.74	1	8260B	04/04/08 16:01	erussell	Q31464
tert-Butylbenzene	BRL	µg/kg	30	0.46	1	8260B	04/04/08 16:01	erussell	Q31464
Tetrachloroethene	BRL	µg/kg	15	1.3	1	8260B	04/04/08 16:01	erussell	Q31464
Toluene	BRL	µg/kg	7.4	0.51	1	8260B	04/04/08 16:01	erussell	Q31464
trans-1,2-Dichloroethene	BRL	µg/kg	7.4	0.57	1	8260B	04/04/08 16:01	erussell	Q31464
trans-1,3-Dichloropropene	BRL	µg/kg	7.4	0.52	1	8260B	04/04/08 16:01	erusseli	Q31464
Trichloroethene	BRL	µg/kg	7.4	0.45	1	8260B	04/04/08 16:01	erussell	Q31464
Trichlorofluoromethane	BRL	µg/kg	7.4	0.61	1	8260B	04/04/08 16:01	erussell	Q31464
Vinyl chloride	BRL	µg/kg	15	0.95	1	8260B	04/04/08 16:01	erussell	Q31464

					Surrogat	e	% Re	covery	Contr	ol Limits
					Toluene-d8		109		81 - 128	
					Dibromof	luoromethane		110	6	7 - 143
					Bromoflu	orobenzene		102	7	7 - 128
Oil and Grease by Soxhlet Extraction Oil and Grease	BRL	mg/kg	46	46	1	9071A	04/17/08	10:00 smar	nivanh	Q31844
Diesel Range Organics (DRO) by GC-F Diesel Range Organics (DRO)	ID BRL	mg/kg	9.1	1.5	1	8015B	04/11/08	16:02 jvoge	el	Q31720

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04/18/08

N. C. Department of Transportation	Project Name:	Idols Tire & Auto, Boone,	Client Sample ID:	B-68-03	
Attn: Ben Bradley		NC	Prism Sample ID:	210433	
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68	COC Group:	G0408097	
11 A Oak Branch Drive	Project No.:		Time Collected:	04/01/08	14:50
Greensboro, NC 27407	Sample Matrix:	Soil	Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			25	.37g /	1 mL	3545	04/10/08 17:15	wconder	P21301
					Surrogate		% Recovery	Cont	rol Limits
					o-Terphen	yl	70	4	19 - 124
Gasoline Range Organics (GRO) by Gasoline Range Organics (GRO)	<u>y GC-FID</u> BRL	mg/kg	1.3	0.027	1	8015B	04/10/08 11:56	wbradley	Q31561

Surrogate	% Recovery	Control Limits
aaa-TFT	62	55 - 129

Sample Comment(s):

GRO/5035 and 8260/5035 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

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04/18/08

N. C. Department of Transportation Project Name: Idols Tire & Auto, Boone, Client Sample ID: B-68-04 NC Attn: Ben Bradley Prism Sample ID: 210434 Project ID: NCDOT Parcel 68 c/o Schnabel Engineering COC Group: G0408097 Project No.: WBS #7210023.07 11 A Oak Branch Drive Time Collected: 04/01/08 15:30 Sample Matrix: Soil Greensboro, NC 27407 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	80.2	%			1	SM2540 G	04/08/08 12:35	mbarber	
Volatile Organic Compounds by GC									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	6.6	0.65	1	8260B	04/07/08 11:12	-	Q31423
1,1,1-Trichloroethane	BRL	µg∕kg	6.6	0.37	1	8260B	04/07/08 11:12	·	Q31423
1,1,2,2-Tetrachloroethane	BRL	µg/kg	6.6	0.68	1	8260B	04/07/08 11:12	lwitry	Q31423
1,1,2-Trichloroethane	BRL	µg/kg	6.6	0.41	1	8260B	04/07/08 11:12	lwitry	Q31423
1,1-Dichloroethane	BRL	µg/kg	6.6	0.48	1	8260B	04/07/08 11:12	lwitry	Q31423
1,1-Dichloroethene	BRL	µg/kg	6.6	0.50	1	8260B	04/07/08 11:12	lwitry	Q31423
1,1-Dichloropropene	BRL	µg/kg	6.6	0.58	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2,3-Trichlorobenzene	BRL	µg/kg	13	0.73	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2,3-Trichloropropane	BRL	µg/kg	6.6	0.58	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2,4-Trichlorobenzene	BRL	µg/kg	13	0.64	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2,4-Trimethylbenzene	BRL	µg/kg	13	0.50	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2-Dibromo-3-chloropropane	BRL	µg/kg	6.6	1.0	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2-Dibromoethane (EDB)	BRL	µg/kg	6.6	0.12	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2-Dichlorobenzene	BRL	µg/kg	13	0.36	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2-Dichloroethane	BRL	µg/kg	6.6	0.66	1	8260B	04/07/08 11:12	lwitry	Q31423
1,2-Dichloropropane	BRL	µg/kg	6.6	0.49	1	8260B	04/07/08 11:12	lwitry	Q31423
1,3,5-Trimethylbenzene	BRL	µg/kg	13	0.56	1	8260B	04/07/08 11:12	lwitry	Q31423
1,3-Dichlorobenzene	BRL	µg/kg	13	0.57	1	8260B	04/07/08 11:12	lwitry	Q31423
1,3-Dichloropropane	BRL	µg/kg	6.6	0.45	1	8260B	04/07/08 11:12	lwitry	Q31423
1,4-Dichlorobenzene	BRL	µg/kg	13	0.52	1	8260B	04/07/08 11:12	lwitry	Q31423
2,2-Dichloropropane	BRL	µg/kg	6.6	0.33	1	8260B	04/07/08 11:12	lwitry	Q31423
2-Chloroethyl vinyl ether	BRL	µg/kg	13	0.49	1	8260B	04/07/08 11:12	lwitry	Q31423
2-Chlorotoluene	BRL.	µg/kg	13	0.49	1	8260B	04/07/08 11:12	lwitry	Q31423
2-Hexanone	BRL	µg/kg	66	0.69	1	8260B	04/07/08 11:12	lwitry	Q31423

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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

NC Project ID: Project No .: Sample Matrix: Soil

Project Name: Idols Tire & Auto, Boone, Client Sample ID: B-68-04 Prism Sample ID: 210434 NCDOT Parcel 68 COC Group: G0408097 WBS #7210023.07 Time Collected: 04/01/08 15:30 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Analyst Date/Time	Batch ID
4-Chlorotoluene	BRL	µg/kg	13	0.34	1	8260B	04/07/08 11:12 lwitry	Q31423
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	13	0.66	1	8260B	04/07/08 11:12 lwitry	Q31423
Acetone	BRL	µg/kg	27	2.6	1	8260B	04/07/08 11:12 lwitry	Q31423
Benzene	BRL	µg/kg	4.0	0.53	1	8260B	04/07/08 11:12 lwitry	Q31423
Bromobenzene	BRL	µg/kg	6.6	0.46	1	8260B	04/07/08 11:12 lwitry	Q31423
Bromochloromethane	BRL	µg/kg	6.6	0.40	1	8260B	04/07/08 11:12 lwitry	Q31423
Bromodichloromethane	BRL	µg/kg	6.6	0.58	1	8260B	04/07/08 11:12 lwitry	Q31423
Bromoform	BRL	µg/kg	6.6	0.49	1	8260B	04/07/08 11:12 lwitry	Q31423
Bromomethane	BRL	µg/kg	13	0.77	1	8260B	04/07/08 11:12 lwitry	Q31423
Carbon disulfide	BRL	µg/kg	13	0.42	1	8260B	04/07/08 11:12 lwitry	Q31423
Carbon tetrachloride	BRL	µg/kg	6.6	0.38	1	8260B	04/07/08 11:12 lwitry	Q31423
Chlorobenzene	BRL	µg/kg	6.6	0.50	1	8260B	04/07/08 11:12 lwitry	Q31423
Chlorodibromomethane	BRL	µg/kg	6.6	0.45	1	8260B	04/07/08 11:12 lwitry	Q31423
Chloroethane	BRL	µg/kg	13	0.54	1	8260B	04/07/08 11:12 lwitry	Q31423
Chloroform	BRL	µg/kg	6.6	0.49	1	8260B	04/07/08 11:12 lwitry	Q31423
Chloromethane	BRL	µg/kg	13	0.46	1	8260B	04/07/08 11:12 lwitry	Q31423
cis-1,2-Dichloroethene	BRL	µg/kg	6.6	0.29	1	8260B	04/07/08 11:12 lwitry	Q31423
cis-1,3-Dichloropropene	BRL.	µg/kg	6.6	0.42	1	8260B	04/07/08 11:12 lwitry	Q31423
Dibromomethane	BRL	µg/kg	6.6	0.49	1	8260B	04/07/08 11:12 lwitry	Q31423
Dichlorodifluoromethane	BRL	µg/kg	13	1.5	1	8260B	04/07/08 11:12 lwitry	Q31423
Ethylbenzene	BRL	µg/kg	6.6	0.46	1	8260B	04/07/08 11:12 lwitry	Q31423
Hexachlorobutadiene	BRL	µg/kg	20	0.82	1	8260B	04/07/08 11:12 lwitry	Q31423
Isopropyl ether (IPE)	BRL	µg/kg	6.6	0.23	1	8260B	04/07/08 11:12 lwitry	Q31423
lsopropylbenzene	BRL	µg/kg	13	0.53	1	8260B	04/07/08 11:12 lwitry	Q31423
m,p-Xylenes	BRL	µg/kg	13	0.93	1	8260B	04/07/08 11:12 lwitry	Q31423
Methyl ethyl ketone (MEK)	BRL.	µg/kg	27	1.9	1	8260B	04/07/08 11:12 lwitry	Q31423
Methyl t-butyl ether (MTBE)	BRL	µg/kg	6.6	0.38	1	8260B	04/07/08 11:12 lwitry	Q31423

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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 ID: Project No.: Sample Matrix: Soil

NC NCDOT Parcel 68 WBS #7210023.07

Project Name: idois Tire & Auto, Boone, Client Sample ID: B-68-04 Prism Sample ID: 210434 COC Group: G0408097 Time Collected: 04/01/08 15:30 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis A Date/Time	nalyst Batch ID
Methylene chloride	BRL	µg/kg	13	0.54	1	8260B	04/07/08 11:12 lwit	y Q31423
n-Butylbenzene	BRL	µg/kg	20	0.53	1	8260B	04/07/08 11:12 lwite	y Q31423
n-Propylbenzene	BRL	µg/kg	13	0.40	1	8260B	04/07/08 11:12 lwit	ry Q31423
Naphthalene	BRL	µg/kg	6.6	0.77	1	8260B	04/07/08 11:12 lwit	ry Q31423
o-Xylene	BRL	µg/kg	6.6	0.40	1	8260B	04/07/08 11:12 lwit	ry Q31423
p-lsopropyltoluene	BRL	µg/kg	20	0.54	1	8260B	04/07/08 11:12 lwit	ry Q31423
sec-Butylbenzene	BRL	µg/kg	20	0.44	1	8260B	04/07/08 11:12 lwit	ry Q31423
Styrene	BRL	µg/kg	6.6	0.66	1	8260B	04/07/08 11:12 lwit	ry Q31423
tert-Butylbenzene	BRL	µg/kg	27	0.41	1	8260B	04/07/08 11:12 lwit	ry Q31423
Tetrachloroethene	BRL	µg/kg	13	1.1	1	8260B	04/07/08 11:12 lwit	ry Q31423
Toluene	BRL	µg/kg	6.6	0.45	1	8260B	04/07/08 11:12 lwit	ry Q31423
trans-1,2-Dichloroethene	BRL	µg/kg	6.6	0.50	1	8260B	04/07/08 11:12 lwit	ry Q31423
trans-1,3-Dichloropropene	BRL	µg/kg	6.6	0.46	1	8260B	04/07/08 11:12 lwit	ry Q31423
Trichloroethene	BRL	µg/kg	6.6	0.40	1	8260B	04/07/08 11:12 lwit	ry Q31423
Trichlorofluoromethane	BRL	µg/kg	6.6	0.54	1	8260B	04/07/08 11:12 lwit	ry Q31423
Vinyl chloride	BRL	µg/kg	13	0.85	1	8260B	04/07/08 11:12 lwit	ry Q31423

					:	Surrogate		% Red	covery	Co	ntrol Limits
					•	Toluene-d8			97		81 - 128
						Dibromofluc	promethane		104		67 - 143
						Bromofluoro	benzene		100		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO)	12	mg/kg	8.6	1.4		1	8015B	04/11/08	16:38	jvogel	Q31720
Sample Preparation:			25.3	34 g	1	1 mL	3545	04/10/08	17:15	wconde	P21301
						Surrogate		% Re	covery	Co	ntrol Limits
						o-Terpheny	I		70		49 - 124

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04/18/08

N. C. Department of Transportation	Project Name:	Idols Tire & Auto, Boone,	Client Sample ID:	B-68-04	
Attn: Ben Bradley		NC	Prism Sample ID:	210434	
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68	COC Group:	G0408097	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	Time Collected:	04/01/08	15:30
Greensboro, NC 27407	Sample Matrix:	Soil	Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics (GRO) by Gasoline Range Organics (GRO)	<u>/ GC-FID</u> BRL	mg/kg	1.2	0.026	1	8015B	04/08/08 19:51	wbradley	Q31561

Surrogate	% Recovery	Control Limits
aaa-TFT	86	55 - 129

Sample Comment(s):

GRO/5035 and 8260/5035 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

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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

NC Project ID: NCDOT Parcel 68 Project No.: WBS #7210023.07 Sample Matrix: Water

Project Name: Idols Tire & Auto, Boone, Client Sample ID: B-68-04 Prism Sample ID: 210435 COC Group: G0408097 Time Collected: 04/01/08 15:30 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Repo rt Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/I	MS								<u>.</u>
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	04/10/08 12:28	erussell	Q31629
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	04/10/08 12:28	erussell	Q31629
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	04/10/08 12:28	erussell	Q31629
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	04/10/08 12:28	erussell	Q31629
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	04/10/08 12:28	erussell	Q31629
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	04/10/08 12:28	erussell	Q31629
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
1,2,4-Trichlorobenzene	BRL	μg/L	1.0	0.22	1	8260B	04/10/08 12:28	erussell	Q31629
1,2,4-Trimethylbenzene	BRL	μg/L	1.0	0.16	1	8260B	04/10/08 12:28	erussell	Q31629
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	04/10/08 12:28	erussell	Q31629
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	04/10/08 12:28	erussell	Q31629
1,2-Dichlorobenzene	BRL	μg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	04/10/08 12:28	erussell	Q31629
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	04/10/08 12:28	erussell	Q31629
2-Chloroethyl vinyl ether	BRL	μg/L	2.0	0.41	1	8260B	04/10/08 12:28	erussell	Q31629
2-Chlorotoluene	BRL	μg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	04/10/08 12:28	erussell	Q31629
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
4-Methyl-2-pentanone (MIBK)	BRL	μg/L	5.0	0.46	1	8260B	04/10/08 12:28	erussell	Q31629
Acetone	BRL	μg/L	10	0.44	1	8260B	04/10/08 12:28	erusseli	Q31629

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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

NC Project ID: Project No .: Sample Matrix: Water

Project Name: Idols Tire & Auto, Boone, Client Sample ID: B-68-04 Prism Sample ID: 210435 NCDOT Parcel 68 COC Group: G0408097 WBS #7210023.07 Time Collected: 04/01/08 15:30 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	04/10/08 12:28	erussell	Q31629
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	04/10/08 12:28	erussell	Q31629
Benzene	BRL	µg/L	1.0	0.094	1	8260B	04/10/08 12:28	erussell	Q31629
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	04/10/08 12:28	erussell	Q31629
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	04/10/08 12:28	erussell	Q31629
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	04/10/08 12:28	erussell	Q31629
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	04/10/08 12:28	erussell	Q31629
Carbon disulfide	BRL	μg/L	5.0	0.15	1	8260B	04/10/08 12:28	erussell	Q31629
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	04/10/08 12:28	erussell	Q31629
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/10/08 12:28	erussell	Q31629
Chlorodibromomethane	BRL	μg/L	1.0	0.20	1	8260B	04/10/08 12:28	erussell	Q31629
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	04/10/08 12:28	erussell	Q31629
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	04/10/08 12:28	erussell	Q31629
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	04/10/08 12:28	erussell	Q31629
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	04/10/08 12:28	erussell	Q31629
Dibromomethane	BRL	μg/L	1.0	0.14	1	8260B	04/10/08 12:28	erussell	Q31629
Dichlorodifluoromethane	BRL	μg/L	2.0	0.19	1	8260B	04/10/08 12:28	erussell	Q31629
Ethylbenzene	BRL	μg/L	1.0	0.16	1	8260B	04/10/08 12:28	erussell	Q31629
Hexachlorobutadiene	BRL	μg/L	2.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
Isopropyl ether (IPE)	BRL	μg/L	1.0	0.079	1	8260B	04/10/08 12:28	erussell	Q31629
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	04/10/08 12:28	erussell	Q31629
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	04/10/08 12:28	erussell	Q31629
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	04/10/08 12:28	erusseil	Q31629
Methyl t-butyl ether (MTBE)	BRL	μg/L	1.0	0.093	1	8260B	04/10/08 12:28	erussell	Q31629
Methylene chloride	BRL	μg/L	2.0	0.16	1	8260B	04/10/08 12:28	erussell	Q31629

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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: Idols Tire & Auto, Boone, Client Sample ID: B-68-04 NC Project ID: NCDOT Parcel 68 Project No .: WBS #7210023.07 Sample Matrix: Water

Prism Sample ID: 210435 COC Group: G0408097 Time Collected: 04/01/08 15:30 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	04/10/08 12:28	erussell	Q31629
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	04/10/08 12:28	erussell	Q31629
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	04/10/08 12:28	erussell	Q31629
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
p-Isopropyltoluene	BRL	μg/L	1.0	0.21	1	8260B	04/10/08 12:28	erussell	Q31629
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	04/10/08 12:28	erussell	Q31629
Styrene	BRL	μg/L	1.0	0.11	1	8260B	04/10/08 12:28	erussell	Q31629
tert-Butylbenzene	BRL	μg/L	1.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
Tetrachloroethene	BRL	μg/L	1.0	0.17	1	8260B	04/10/08 12:28	erussell	Q31629
Toluene	BRL	µg/∟	1.0	0.31	1	8260B	04/10/08 12:28	erussell	Q31629
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	04/10/08 12:28	erussell	Q31629
trans-1,3-Dichloropropene	BRL	μg/L	1.0	0.22	1	8260B	04/10/08 12:28	erussell	Q31629
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	04/10/08 12:28	erussell	Q31629
Trichlorofluoromethane	BRL	µg/∟	2.0	0.21	1	8260B	04/10/08 12:28	erussell	Q31629
Vinyl acetate	BRL	μg/L	20	0.44	1	8260B	04/10/08 12:28	erussell	Q31629
Vinyl chloride	BRL	µg/∟	2.0	0.23	1	8260B	04/10/08 12:28	erussell	Q31629

					Surrogate		% Re	covery	Control I	imits
					Toluene-d8			99	75 - 1	121
					Dibromoflu	oromethane		103	74 - 1	133
					Bromofluor	obenzene		112	69 - 1	139
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) B	RL m	ng/L	1.0	0.074	1	8015B	04/07/08	11:44 jv	ogel (Q31539
Sample Preparation:			1	000 mL /	2 mL	3510C	04/05/08	11:00	grappaccioli P	21258
					Surrogate		% Re	covery	Control I	imits
					o-Terpheny	d		95	50 - 1	144

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04/18/08

N. C. Department of Transportation	Project Name:	Idols Tire & Auto, Boone,	Client Sample ID:	B-68-04	
Attn: Ben Bradley		NC	Prism Sample ID:	210435	
c/o Schnabel Engineering	Project ID:		COC Group:	G0408097	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	Time Collected:	04/01/08	15:30
Greensboro, NC 27407	Sample Matrix:	Water	Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics (GRO) by Gasoline Range Organics (GRO)	<u>GC-FID</u> BRL	mg/L	0.20	0.031	1	8015B	04/04/08 14:22	wbradley	Q31497

Surrogate	% Recovery	Control Limits
aaa-TFT	70	57 - 132

Sample Comment(s):

GRO/5035 and 8260/5035 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

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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	Project	Idols Tire & Auto, Boone,	COC Group Number:	G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

Volatile Organic Compounds by GC/MS, method 8260B

thod Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31423
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q31423
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31423
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31423
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31423
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31423
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q31423
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q31423
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31423
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31423
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31423
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31423
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31423
2-Hexanone	ND	0.05	<0.025	mg/kg	Q31423
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31423
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q31423
Acetone	ND	0.05	<0.025	mg/kg	Q31423
Benzene	ND	0.003	<0.0015	mg/kg	Q31423
Bromobenzene	NÐ	0.005	<0.0025	mg/kg	Q31423
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q31423
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q31423
Bromoform	ND	0.005	<0.0025	mg/kg	Q31423
Bromomethane	ND	0.01	<0.005	mg/kg	Q31423
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q31423
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q31423
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q31423
Chloroethane	ND	0.01	<0.005	mg/kg	Q31423

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Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number: G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted: 4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	
Greensboro, NC 27407			

Method Blank

lethod Blank	Result	RĻ	Control Limit	Units				QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg			C	231423
Chloromethane	ND	0.005	<0.0025	mg/kg			C	231423
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			c	231423
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			C	231423
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg			c	231423
Ethylbenzene	ND	0.005	<0.0025	mg/kg			C	231423
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg			C	231423
Isopropylbenzene	ND	0.005	<0.0025	mg/kg			c	231423
m,p-Xylenes	ND	0.01	<0.005	mg/kg			c	231423
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg			c	231423
Methyi t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg			c	231423
Methylene chloride	ND	0.005	<0.0025	mg/kg			c	231423
n-Butylbenzene	ND	0.005	<0.0025	mg/kg			c	231423
n-Propylbenzene	ND	0.005	<0.0025	mg/kg			c	231423
Naphthalene	ND	0.01	<0.005	mg/kg			C	231423
o-Xylene	ND	0.005	<0.0025	mg/kg			C	231423
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg			C	231423
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg			C	231423
Styrene	ND	0.005	<0.0025	mg/kg			c	231423
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg			C	231423
Tetrachloroethene	ND	0.005	<0.0025	mg/kg			c	231423
Toluene	ND	0.005	<0.0025	mg/kg			C	231423
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			C	231423
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			C	231423
Trichloroethene	ND	0.005	<0.0025	mg/kg			C	231423
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg			c	231423
Vinyl acetate	ND	0.025	<0.0125	mg/kg			c	231423
Vinyl chloride	ND	0.005	<0.0025	mg/kg			c	231423
aboratory Control Sample	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %		QC Batch ID
1,1-Dichloroethene	0.04285	0.05		mg/kg	86	57-122	C	231423
Benzene	0.04117	0.05		mg/kg	82	62-119	c	231423
Chlorobenzene	0.04513	0.05		mg/kg	90	61-124	c	231423
Toluene	0.0521	0.05		mg/kg	104	57-122	C	231423
Trichloroethene	0.04517	0.05		mg/kg	90	59-129		231423



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	1	Project Name: Project ID: Project No.:	Idols Tire & NC NCDOT Pa WBS #721	arcel 68		COC Group Number: Date/Time Submitted:	G040809 4/3/200	-
Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		QC Batch ID	
210360 1,1-Dichloroethene	0.02662	0.05	mg/kg	53	44-140	I	Q31423	
Benzene	0.02742	0.05	mg/kg	55	46-136	i	Q31423	
Chlorobenzene	0.02989	0.05	mg/kg	60	47-135	i	Q31423	
Toluene	0.03053	0.05	mg/kg	61	47-136	i	Q31423	
Trichloroethene	0.02998	0.05	mg/kg	60	45-141		Q31423	
Matrix Snike Duplicate					Recovery	RPD		

	0.02000	0100		••				
Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210360 1,1-Dichloroethene	0.03049	0.05	mg/kg	61	44-140	14	0 - 23	Q31423
Benzene	0.03292	0.05	mg/kg	66	46-136	18	0 - 22	Q31423
Chlorobenzene	0.03328	0.05	mg/kg	67	47-135	11	0 - 22	Q31423
Toluene	0.03438	0.05	mg/kg	69	47-136	12	0 - 22	Q31423
Trichloroethene	0.03395	0.05	mg/kg	68	45-141	12	0 - 23	Q31423



Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number:	G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

Volatile Organic Compounds by GC/MS, method 8260B

od Blank	Result	RL	Control Limit	Units	QC Bate ID
1,1,1,2-Tetrachloroethane	ND	5	<2.5	µg/kg	Q31464
1,2-Dibromo-3-chloropropane	ND	5	<2.5	µg/kg	Q31464
2-Chloroethyl vinyl ether	ND	10	<5	µg/kg	Q31464
Carbon disulfide	ND	10	<5	µg/kg	Q31464
Dibromomethane	ND	5	<2.5	µg/kg	Q31464
Hexachlorobutadiene	ND	15	<7.5	hð\kð	Q31464
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31464
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q31464
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q3146
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q3146
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q3146
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q3146
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q3146
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q3146
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q3146
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q3146
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3146
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q3146
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3146
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q3146
2-Chlorotoiuene	ND	0.005	<0.0025	mg/kg	Q3146
2-Hexanone	ND	0.05	<0.025	mg/kg	Q3146
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q3146
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q3146
Acetone	ND	0.05	<0.025	mg/kg	Q3146
Benzene	ND	0.003	<0.0015	mg/kg	Q3146
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q3146
Bromochioromethane	ND	0.005	<0.0025	mg/kg	Q3146
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q3146

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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

Greensboro, NC 27407 Method Blank				QC Batch
c/o Schnabel Engineering 11 A Oak Branch Drive	Project ID: Project No.:	NCDOT Parcel 68 WBS #7210023.07		
N. C. Department of Transportation Attn: Ben Bradley	Project Name:	Idols Tire & Auto, Boone, NC	COC Group Number: Date/Time Submitted:	

lethod Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromoform	ND	0.005	<0.0025	mg/kg	Q31464
Bromomethane	ND	0.01	<0.005	mg/kg	Q31464
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q31464
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q31464
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q31464
Chloroethane	ND	0.01	<0.005	mg/kg	Q31464
Chioroform	ND	0.005	<0.0025	mg/kg	Q31464
Chloromethane	ND	0.005	<0.0025	mg/kg	Q31464
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31464
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31464
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q31464
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q31464
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q31464
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q31464
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q31464
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q31464
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q31464
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q31464
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q31464
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q31464
Naphthalene	ND	0.01	<0.005	mg/kg	Q31464
o-Xylene	ND	0.005	<0.0025	mg/kg	Q31464
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q31464
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q31464
Styrene	ND	0.005	<0.0025	mg/kg	Q31464
tert-Butylbenzene	NÐ	0.005	<0.0025	mg/kg	Q31464
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q31464
Toluene	ND	0.005	<0.0025	mg/kg	Q31464
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31464
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31464
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q31464
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q31464
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q31464
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q31464
boratory Control Sample	Result	Spike Amou	nt	Recovery Ranges Units % %	QC Batch ID



N. C. Department of Transportation

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

Project

Level II QC Report

COC Group Number: G0408097

04/18/08

Attn: Ben Bradley		Name:	NC	;	Auto, Ba	-	Date/Time Submitted	
c/o Schnabel Engineering		Project ID		DOT Pa				
11 A Oak Branch Drive Greensboro, NC 27407		Project N	U VVE	oo #/21	0023.07			
Laboratory Control Sample	Result	Spike Amount		Units	Recovery %	Recovery Ranges %		QC Batch ID
1,1-Dichloroethene	37.15	50		mg/kg	74	57-122	2	Q31464
Benzene	40.53	50		mg/kg	81	62-119	Э	Q31464
Chlorobenzene	39.03	50		mg/kg	78	61-124	1	Q31464
Toluene	43.39	50		mg/kg	87	57-122	2	Q31464
Trichloroethene	40.53	50		mg/kg	81	59-129	9	Q31464
Matrix Spike Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %		QC Batch ID
210021 1,1-Dichloroethene	31.11	50		mg/kg	62	44-14()	Q31464
Benzene	32.39	50		mg/kg	65	46-136	3	Q31464
Chlorobenzene	28.91	50		mg/kg	58	47-13		Q31464
Toluene	32	50		mg/kg	64	47-136	6	Q31464
Trichloroethene	31.95	50		mg/kg	64	45-141	1	Q31464
Matrix Spike Duplicate	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD RPD Range % %	QC Batch ID
210021 1,1-Dichloroethene	31.68	50		mg/kg	63	44-14		Q31464
Benzene	32.63	50		mg/kg	65	46-136		Q31464
Chlorobenzene	28.93	50		mg/kg	58	47-13		Q31464
Toluene	31.31	50		mg/kg	63	47-136		Q31464
Trichloroethene	31.68	50		mg/kg	63	45-14		Q31464
Gasoline Range Organics (GRO) by G	C-FID, me	athod 8015E	<u>3</u>					
Nethod 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	3	Q31497
Matrix Spike				· · ·	Recovery	Recovery Ranges		QC Batch
Sample ID:	Result	Spike Amount	!	Units	%	Manges		(D
210432 Gasoline Range Organics (GRO)	1.784	2		mg/L	89	69-130	ס	Q31497
Matrix Spike Duplicate					Recovery	Recovery Ranges	RPD RPD Range	QC Batch
Sample ID:	Result	Spike Amount	t	Units	%	%	% %	ID
210432 Gasoline Range Organics (GRO)	1.910	2		mg/L	96	69-130	0 7 0-24	Q31497

Idols Tire & Auto, Boone,



Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number:	G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

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

Method Blank									QC Batch
	Result	RL	Control Limit	Units					ID
Diesel Range Organics (DRO)	ND	1	<0.5	mg/L					Q31539
Laboratory Control Sample	Result	Spike Amou	unt	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 Amou	unt	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 Amou	unt	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

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

Method Blank									QC Batch
	Result	RL	Control Limit	Units					iD
Gasoline Range Organics (GRO)	ND	1	<0.5	mg/kg					Q31561
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organics (GRO)	1.603	2		mg/kg	80	64-124			Q31561
Matrix Spike					Recovery	Recovery			QC Batch
Sample ID:	Result	Spike Amou	nt	Units	%	Ranges %			D
210434 Gasoline Range Organics (GRO)	1.659	2		mg/kg	83	37-126			Q31561
Matrix Spike Duplicate					Recovery	Recovery	RPD	RPD	QC Batch
Sample ID:	Result	Spike Amou	nt	Units	%	Ranges %	%	Range %	UD DI
210434 Gasoline Range Organics (GRO)	1.367	2		mg/kg	68	37-126	19	0 - 34	Q31561



Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number:	G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

Volatile Organic Compounds by GC/MS, method 8260B

hod Blank	Result	RL,	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	μg/L	Q31629
1,1,1-Trichloroethane	ND	1	<0.5	μg/L	Q31629
1,1,2,2-Tetrachloroethane	ND	1	<0.5	μg/L	Q31629
1,1,2-Trichloroethane	ND	1	<0.5	μg/L	Q31629
1,1-Dichloroethane	ND	1	<0.5	μg/L	Q31629
1,1-Dichloroethene	ND	1	<0.5	μg/L	Q31629
1,1-Dichloropropene	ND	1	<0.5	μg/L	Q31629
1,2,3-Trichlorobenzene	ND	2	<1	μg/L	Q31629
1,2,3-Trichloropropane	ND	1	<0.5	μg/L	Q31629
1,2,4-Trichlorobenzene	ND	1	<0.5	μg/L	Q31629
1,2,4-Trimethylbenzene	ND	1	<0.5	μg/L	Q31629
1,2-Dibromo-3-chloropropane	ND	2	<1	μg/L	Q31629
1,2-Dibromoethane (EDB)	ND	1	<0.5	μg/L	Q31629
1,2-Dichlorobenzene	ND	1	<0.5	μg/L	Q31629
1,2-Dichloroethane	ND	1	<0.5	μg/L	Q31629
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q31629
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q31629
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q31629
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q31629
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q31629
2,2-Dichloropropane	ND	2	<1	μg/L	Q31629
2-Chloroethyl vinyl ether	ND	2	<1	μg/L	Q31629
2-Chlorotoluene	ND	1	<0.5	μg/L	Q31629
2-Hexanone	ND	5	<2.5	µg/L	Q31629
4-Chlorotoluene	ND	1	<0.5	µg/L	Q31629
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q31629
Acetone	ND	10	<5	µg/L	Q31629
Acrolein	ND	100	<50	µg/L	Q31629
Acrylonitrile	ND	100	<50	µg/L	Q31629
Benzene	ND	1	<0.5	µg/L	Q31629
Bromobenzene	ND	1	<0.5	µg/L	Q31629
Bromochloromethane	ND	1	<0.5	µg/L	Q31629
Bromodichloromethane	ND	1	<0.5	µg/L	Q31629
Bromoform	ND	1	<0.5	µg/L	Q31629

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Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number: G	0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

Method Blank

thod Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q31629
Carbon disulfide	ND	5	<2.5	μg/L	Q31629
Carbon tetrachloride	ND	2	<1	µg/L	Q31629
Chlorobenzene	ND	1	<0.5	μg/L	Q31629
Chlorodibromomethane	ND	1	<0.5	µg/L	Q31629
Chloroethane	ND	5	<2.5	µg/L	Q31629
Chioroform	ND	1	<0.5	μg/L	Q31629
Chloromethane	ND	2	<1	µg/L	Q31629
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q31629
cis-1,3-Dichloropropene	ND	1	<0.5	hð\r	Q31629
Dibromomethane	ND	1	<0.5	µg/L	Q31629
Dichlorodifluoromethane	ND	2	<1	µg/L	Q31629
Ethylbenzene	ND	1	<0.5	µg/L	Q31629
Hexachlorobutadiene	ND	2	<1	µg/L	Q31629
Isopropyl ether (IPE)	ND	1	<0.5	μg/L	Q31629
Isopropylbenzene	ND	1	<0.5	µġ/L	Q31629
m,p-Xylenes	ND	2	<1	µg/L	Q31629
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q31629
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q31629
Methylene chloride	ND	2	<1	µg/L	Q31629
n-Butylbenzene	ND	1	<0.5	µg/L	Q31629
n-Propylbenzene	ND	1	<0.5	µg/L	Q31629
Naphthalene	ND	1	<0.5	µg/L	Q31629
o-Xylene	ND	1	<0.5	µg/L	Q31629
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q31629
sec-Butylbenzene	ND	1	<0.5	µg/L	Q31629
Styrene	ND	1	<0.5	µg/L	Q31629
tert-Butylbenzene	ND	1	<0.5	hð\r	Q31629
Tetrachloroethene	ND	1	<0.5	µg/L	Q31629
Toluene	ND	1	<0.5	µg/L	Q31629
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q31629
trans-1,3-Dichloropropene	ND	1	<0.5	μg/L	Q31629
Trichloroethene	ND	2	<1	µg/L	Q31629
Trichlorofluoromethane	ND	2	<1	µg/L	Q31629
Vinyl acetate	ND	20	<10	µg/L	Q31629
Vinyl chloride	ND	2	<1	µg/L	Q31629

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Level II QC Report

04/18/08

N. C. Department of Transportation Attn: Ben Bradley		Project Name:	I	Idols Tire 8 NC		,	COC Group Number: G040 Date/Time Submitted: 4/3				
c/o Schnabel Engineering		Project II Project N		NCDOT Pa WBS #721							
11 A Oak Branch Drive Greensboro, NC 27407		110,0001	10	1100 #121	0020.07						
Laboratory Control Sample					Recovery	Recovery					
	Result	Spike Amour	nt	Units	%	Ranges %			QC Batch ID		
1,1-Dichloroethene	45.81	50		µg/L	92	62-141			Q31629		
Benzene	45.98	50		µg/L	92	70-141			Q31629		
Chlorobenzene	47.62	50		µg/L	95	88-120)		Q31629		
Toluene	49.03	50		µg/L	98	78-130)		Q31629		
Trichloroethene	49.45	50		µg/L	99	78-124	Ļ		Q31629		
Matrix Spike Sample ID:	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID		
210555 1,1-Dichloroethene	183.44	200		µg/L	92	54-140)		Q31629		
Benzene	185.36	200		µg/L	93	62-129	1		Q31629		
Chlorobenzene	188.64	200		µg/L	94	64-127	,		Q31629		
Toluene	184.92	200		µg/L	92	60-131			Q31629		
Trichloroethene	192.8	200		µg/L	96	52-128	5		Q31629		
Matrix Spike Duplicate Sample ID:	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID		
210555 1,1-Dichloroethene	174.08	200		µg/L	87	54-140	5	0 - 20	Q31629		
Benzene	178.52	200		µg/L	89	62-129) 4	0 - 19	Q31629		
Chlorobenzene	184.12	200		µg/L	92	64-127	2	0 - 20	Q31629		
Toluene	179.4	200		µg/L	90	60-131	3	0 - 21	Q31629		
Trichloroethene	184.48	200		μg/L	92	52-128	3 4	0 - 18	Q31629		
Diesel Range Organics (DRO) by GC-	FID, meth	od 8015B									
Method Blank	Result	RL	Control L	lmit Units					QC Batch 1D		
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31720		
Laboratory Control Sample	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID		
Diesel Range Organics (DRO)	57.7	80		mg/kg	72	55-109)		Q31720		
Matrix Spike					Recovery	Recovery Ranges			QC Batch		
Sample ID:	Result	Spike Amou	nt	Units	%	Kanges %			ID		
210631 Diesel Range Organics (DRO)	52.2	80		mg/kg	65	50-117	,		Q31720		
Matrix Spike Duplicate Sample ID:	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch		
210631 Diesel Range Organics (DRO)	54.8	80		mg/kg	69	50-117	7 5	0 - 24	Q31720		



Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Idols Tire & Auto, Boone,	COC Group Number:	G0408097
Attn: Ben Bradley	Name:	NC	Date/Time Submitted:	4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 68		
11 A Oak Branch Drive	Project No.:	WBS #7210023.07		
Greensboro, NC 27407				

Oil and Grease by Soxhlet Extraction, method 9071A

Method Blank			· · · ·						QC Batch
	Result	RL	Control Limit	Units					ID
Oil and Grease	ND	35	<17.5	mg/kg					Q31844
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Oil and Grease	5259	5249		mg/kg	100	80-120			Q31844
Matrix Spike Sample ID:	Result	Spike Amou	nt	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 Amou	nt	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

N/A		SONNEL	PRISM	ID NO.		254416	664010 A12434	210435	· - 3 COPIES	PRISM USE ONLY	Time:	ire lime: Tee:			SEE REVERSE FOR TERMS & CONDITIONS	ORIGINAL
	PROPER PRESERVATIVES indicated? 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 C SC OTHER N/A N/A Water Chlorinated: YES NO Sample Iced Upon Collection: YES NO	s RE	ON KON REMARKS	H K	× \$ \$			PRESS DOWN FIRMLY - 3 COPIES		vittours Additional Comments:	Site Departure 1ime: Field Tech Fee:	ල් කර Mileage:			-
RECORD	oject: (Yes) (No) C LEVEL I II II IV)		\mathbf{i}	A CONFOUND SUD	X	X > X >	$\times \times$ $\times \times$ $\times \times$	X X X	 Affiliation	ove. Any changes must t alized.	120X 1	Date	4306	C-OHOBOR		rganics Analvsis (Zero H
CUSTODY	1001E # 10 ENSIGNE PHOPEN BILLING: アンノのしころ、の子 S: (Yes) (No) UST Project: ny project specific reporting (QC LEV QC Requirements	2./Billing Reference	PRESERVA-						Bradder	llyses as requested abo nalyses have been initi			\mathcal{Y}	ANSFORTATION TO THE LABORATORY. LABORATORY.	RCRA: CERCLA	Cap. VOA = Volatile O
	Project Name: 72/0023.07 Project Name: 72/0023.07 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No *Please ATTACH any project specific reporting (QC LEVEL I II II) provisions and/or QC Requirements Invoice To: Address:	Purchase Order No./Billing Reference	SAMPLE CONTAINER	*TYPE NO. SIZE	E. G	6		1, 100 E	Rr.	rism to proceed with the ana rges for any changes after a	Ju Ula Gis) A	ceived By: (Signature)			SOLID WASTE:	P = Plastic, TL = Teflon-Lined Cap. VOA = Volatile Organics Analysis (Zero Head Space)
.		1 NO: 1	TIME MATRIX COLLECTED (SOIL,	H ()	<u> 501/7</u>	<u>101</u>	1220 Jor 1221	530 Waken 1	Control Sampled By (Print Name)	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.	VAC TRODUC	8 OYD	R Ceive	NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITA CUSTODY SEALS FOR II SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE.	,	A = Amber C = Clear G = Glass P
PRISM	ice Analytical & Envirc ice Analytical & Envirc • Fax: 704/525-9408 me: ンレカバンC Name: アンイ	Sb Fax (Yes) I Address(Lyts) State Xcel Other Xcel Other I Address I	DATE	COLLECTED	01-11-08	80-1-1-20	1 20-1-2 200	80-14 40-	mature Burlas 1	ishing, this Chain of Custod writing to the Prism Project	ed By; (Signature)	and the second	(Signature)	ent: NOTE: ALL SAMPLE COOLERS SAMPLES ARE NOT ACCEPTE PS D Hand-delivered	INC DSC DNC	YPE CODES:
	Full Serv Full Serv 449 Springbrook Road Phone: 704/529-8384 Client Company Nar Report To/Contact I Reporting Address:	Phone: <u>231-274-94</u> Email (1958) (No) Emai EDD Type: PDF <u></u> E Site Location Name: Site Location Physica	CLIENT	SAMPLE DESCRIPTION	B-68-	10-10	B-60,	3 2 68	Samoler's Signature	Upon relingu submitted in	Relinquished By:	Relingun wed By:	Reinquished By: (Method of Shipment:	l sc	+CONTAINER