PRELIMINARY SITE ASSESSMENT PARCEL 28 TRAILWAY LAUNDRY PROPERTY 320 EAST KING STREET BOONE, WATAUGA COUNTY, NORTH CAROLINA WBS ELEMENT 35015.1.1 TIP U-4020

Prepared for

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URS Job No. 3182 5704

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Certification

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



2061 NC License No.

Date

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

1.1 INTRODUCTION

This report documents a Preliminary Site Assessment (PSA) conducted by URS Corporation – North Carolina (URS) on behalf of the North Carolina Department of Transportation (NCDOT). The assessment area is located within a proposed NCDOT Right-of-Way (ROW) and/or construction easement necessary for the planned expansion of US 421 (King Street) from US 321 (Hardin Street) to east of NC 194 (Jefferson Road). This PSA was conducted in Boone, Watauga County, North Carolina (**Figure 1**) for Parcel 28, Trailway Laundry Property, located at 320 East King Street. Only the portion of Parcel 28 lying within the proposed ROW or permanent drainage easement (PDE) was evaluated for this PSA.

This PSA was performed in general accordance with:

- NCDOT's February 20, 2008 Request for Technical and Cost Proposal (RFP) entitled: <u>Request for Technical and Cost Proposal, Preliminary Site Assessment, Parcel 28, Trailway</u> <u>Laundry Property</u>. The RFP established the following scope of work (SOW) for the project:
 - Locate all underground storage tanks (USTs) and determine approximate size and contents (if any).
 - Determine if contaminated soils are present.
 - If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a Site map.
 - Prepare a report including field activities, findings, and recommendations for the Site and submit the report to NCDOT in triplicate.
- URS's March 7, 2008 Technical and Cost Proposal entitled: <u>*Revised Technical and Cost Proposal, Preliminary Site Assessment, Parcel 28, Trailway Laundry Property.*</u>
- NCDOT's March 7, 2008 <u>Notice to Proceed, Preliminary Site Assessment, Parcel 28,</u> <u>Trailway Laundry Property.</u>
- Personal Communication between URS and NCDOT on various dates beginning April 10, 2008 regarding additional site work needed to delineate apparent soil impacts.

The project included a geophysical survey, soil sampling and temporary monitoring well installation using a Geoprobe[®] rig, groundwater sampling, and laboratory analyses of groundwater and selected soil samples from within the proposed ROW/construction easement and the PDE. The geophysical survey was first conducted by URS in order to assess the locations of any USTs within the subject areas. Based on the results of the geophysical survey and anecdotal evidence, boring locations were identified and the direct-push borings were completed by a qualified drilling subcontractor (SAEDACCO of Fort Mill, South Carolina) under the supervision of a URS geologist. Based on preliminary field screening results, additional borings were installed at several locations from within the dry cleaning building during a second mobilization to assess impacted soil conditions beneath the building floor. Analyses of soil and groundwater samples were performed by Prism Laboratories, Inc. (Prism) of Charlotte, North Carolina under direct contract with NCDOT.

1.2 BACKGROUND

The objective for this PSA is to assess the Site for impacted soil and to delineate potential impacts found in soils. The Site location relative to the Town of Boone and the project area is shown in **Figure 1**, and its location relative to the adjacent project parcels along with major project features is shown in **Figure 2**. US 421 runs east/west through Boone, NC, and the parcel is located at the southwest corner of the intersection of US 421 (East King Street) and Hillside Drive (see **Appendix A** for photographs). The parcel includes the Trailway Laundry and dry cleaning facility building along King Street and an open area along the south portion of the parcel. The parcel slopes downward to the south and away from King Street allowing two story construction in the rear of the building. The parcel lies at an elevation of approximately 3,250 feet above mean sea level (ft msl).

The owner of the parcel and dry cleaning business indicated that the business was founded at the King Street location in the 1950's and had been the site of dry cleaning operations since that time. The two story building houses dry cleaning units near the northwest corner of the upper floor with laundry units, steamers, and storage located throughout the rest of the upper floor. The lower floor (walkout basement) includes storage, former and current boilers, and an above ground storage tank (AST) for diesel. The owner indicated that a diesel UST was previously removed from an area southwest of the building and outside the proposed right-of-way.

The areas of interest are within the proposed ROW which encompasses over 100 ft along King Street, over 250 ft along Hillside Drive, and the 20 ft wide PDE strip that spans the entire parcel near the southern boundary of the property.

2.1 GEOPHYSICAL SURVEY

The geophysical survey for Parcel 28 was conducted between March 18 and 22, 2008 by URS using the electromagnetic (EM) method augmented by ground-penetrating radar (GPR). The EM survey was completed using the Geonics, Ltd. EM-61 MKII (EM-61). The objective of the geophysical survey was to locate USTs or anomalies within the proposed ROW of US 421. A Trimble ProXRS global positioning system (GPS) was used to record simultaneous positional data coincident with the EM-61 data. EM-61 data were collected along parallel profiles spaced approximately three feet apart across the survey area. Data were recorded at a rate of five readings per second, which equates to an along-profile data point spacing of less than one foot. The acquired differential GPS (DGPS) has a horizontal accuracy of approximately three feet. URS also used the GPS system to record the locations of relevant Site features.

The EM-61 data were processed in the field using the program DAT61 MK2 (Geonics Ltd). The program was used primarily to prepare the data for contouring in Surfer (Golden Software, Inc.). The contoured EM-61 Channel 3 responses (data recorded at the second latest time interval along the response decay curve) were used to layout boring locations throughout the entire parcel. The late time response data provide enhanced detection of objects with longer decay rates which are characteristic of larger objects such as USTs. The effectiveness of the EM-61 for detection of buried objects is negatively affected by interference from surface or near-surface features (e.g. reinforced concrete, buried catch basins, etc.). The objective of augmenting the EM-61 survey with follow-up GPR surveying was to further characterize identified EM-61 anomalies that could not be readily attributed to existing site features.

Follow-up GPR surveying was then conducted using a Sensors & Software, Inc. Noggin PLUS Smart Cart System with a 250 MHz scanning antenna. The GPR survey was conducted within sections of the parcel that exhibited widespread large EM responses due to the presence of buildings, reinforced concrete, or other site-specific features. GPR surveying consisted of infield analysis of real-time data, and as a result, no post-processing of the data was completed.

2.2 SOIL BORING INSTALLATION AND SOIL SAMPLING

Sixteen Geoprobe[®] direct-push soil borings, P28-1 through P28-16, were installed between April 8 and April 11, 2008 to assess the Site for impacted soil to a target depth of 21 ft bgs. The locations of the soil borings are shown on **Figure 3**. The majority of the borings were positioned around the perimeter of the dry cleaning building; however, two borings, P28-12 and P28-14, were located within the separate PDE located along the rear of the parcel. Soil samples were collected and logged continuously at each soil boring location. Soil sample aliquots were field screened for organic vapors with a MiniRae[®] brand photo-ionization detection (PID) instrument calibrated daily with 100 parts per million (ppm) isobutylene.

Soil samples from selected intervals were collected from each boring (P28-1 through P28-16) during the soil investigations for laboratory analysis. The samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8015B. In addition, because the parcel has been used as a dry cleaning facility, selected samples were also analyzed for Volatile Organic Compounds (VOCs) using USEPA Method 8260 to evaluate the presence of typical dry cleaning solvents including Tetrachloroethene (PCE). A total of 17 samples were collected for TPH analysis, and of those, 13 were also analyzed for VOCs.



Based on the positive organic vapor response in P28-1 and a more complete reconnaissance of the parcel, URS was directed by NCDOT to conduct additional sampling to evaluate the following:

- Soil conditions beneath the floor slab in the vicinity of the dry cleaning units located in the northwest portion of the building,
- Soil conditions beneath the floor slab in the vicinity of the diesel AST and boilers located in the lower level,
- Soil conditions at additional locations outside the portion of the building containing the dry cleaning units, and
- Groundwater conditions at the downgradient portion of the parcel within the PDE.

Direct-push Geoprobe[®] and hand auger equipment was remobilized and an additional ten borings were installed between May 6 and May 8, 2008 to assess soil and groundwater conditions as noted above. The floor slab was cored in several areas and three borings were hand augered in the vicinity of the dry cleaning units (P28-19, 20, and 21), and three borings were hand augered in the basement area (P28-22, 23, and 24). Two Geoprobe[®] direct-push soil borings were installed outside the dry cleaning area (P28-25 and 26), and two borings were installed within the PDE (P28-17 and 18). Of these, P28-17 and P28-26 were drilled deeper (see **Table 1**), and P28-17 was converted into a monitoring well. 1-inch diameter PVC screen and casing was installed through the Geoprobe rod and a sand filter pack was poured in.

Soil sample aliquots were field screened for organic vapors with a PID and soil samples from selected intervals were collected from each boring for laboratory analysis. The soil samples were analyzed for TPH (GRO/DRO) and were also analyzed for VOCs to evaluate the presence of PCE. A total of 10 soil samples were collected for TPH analysis and eleven for VOC analysis. A single groundwater sample was collected from P28-17 and submitted for VOC analysis.

2.3 QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

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

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

SECTIONTHREE

The EM-61 results are provided as a color enhanced contour map for use in the field during the drilling operation (**Figure 4**). The map differentiates areas interpreted as background from areas of relatively high EM responses that are generally indicative of large buried metal objects or surface or near-surface features (e.g. suspected underground utilities, guard rail, fence). Interpretation of in-field data analysis revealed no EM anomalies indicative of USTs within the areas of Parcel 28 surveyed. However, the EM-61 results indicated widespread areas of elevated responses as shown on **Figure 4**. Follow-up GPR surveying was therefore conducted in several areas of Parcel 28 to further evaluate the potential presence of USTs and the GPR survey did not indicate the presence of any USTs.

One area of interest was the negative response (light blue) seen at the northwest corner of the Parcel 28 building (**Figure 4**). Negative EM-61 responses are typically indicative of surface metal or interference from metallic objects at the surface. At the time of the field investigation, the EM-61 and GPR did not indicate an UST present, and the subsequent interpretation of the EM-61 data indicated that the negative response was likely due to interference from the building at Parcel 28. However, subsequent intrusive investigations identified a UST situated approximately 3 ft north of the northwest corner of the building (see below for additional details). The UST was not identified in the EM-61 results because interpretations indicated the response was likely due to interference from the building the to interference from the building itself.

A total of 26 soil borings were completed during the PSA investigation at Parcel 28 as shown on **Figures 3** and **5**. With a few exceptions, the direct-push Geoprobe[®] borings were generally advanced to a minimum 12 ft bgs, and the hand auger borings were advanced to 6 ft bgs. The exceptions are as follows:

- P28-15 and P28-16 were advanced to 16 ft bgs to assess deeper conditions in the vicinity of the former diesel UST that was reported by the owner to be removed (see **Figure 5** for location),
- P28-17 was advanced to a depth of 24 ft bgs to assess groundwater conditions,
- P28-26 was advanced to a depth of 20 ft bgs to assess deeper conditions downgradient from the suspected dry cleaning solvent release, and
- Hand auger borings P28-20 and P28-21 met refusal at 2 ft and were terminated.

Boring locations are shown in **Figure 3** and boring logs are provided in **Appendix B**. The soil is generally described as predominantly light brown, loose, silty sand. Groundwater was encountered at approximately 20 ft bgs in P28-17 and the boring was advanced to 24 ft bgs where monitoring well screen was placed (see **Appendix B** for the well completion diagram). Depth to groundwater was measured at approximately 21.5 ft bgs as shown in **Figures 3** and **5**.

Soil headspace screening readings and laboratory results (TPH as GRO and DRO and PCE) of soil samples collected from each soil boring are summarized in **Table 1** along with the Unified Soil Classification System (USCS) lithology. The complete laboratory report is included in **Appendix C**.

Elevated PID readings were observed in several soil borings as highlighted in **Figures 3** and **5** (P28-1, P28-17, P28-19, P28-20, P28-21, and P28-26) and ranged up to 697 ppm (see **Table 1**). The PID readings were generally recorded in the upper 6 ft bgs with the exception of P28-17 which recorded PID readings at 18 to 20 ft bgs. Assessment results are discussed below for each of the various areas.

SECTIONTHREE

Dry Cleaning Area. The dry cleaning units are located in the northwest corner of the building on the King Street level as shown in **Figure 5**. Eight borings were installed outside to the south, west, and north of the dry cleaning portion of the building, and three were installed inside the building. Of these eleven borings, two contained TPH and eight contained measureable or trace levels of PCE (see **Table 1** and **Figures 3** and **5**).

PCE has impacted the soil beneath the floor slab in the vicinity of the dry cleaning units down to the total depth hand augered (6 ft) in P28-19, and to at least two ft (hand auger refusal) in P28-20 and P28-21. P28-2, P28-3 and P28-6 showed no impacts, while the remaining borings showed some level of PCE impact. A trench drain was noted in the dry cleaning room running in a north – south direction behind the units, and discharging to a pipe that exits the wall and discharges to the ground near P28-1. It is possible that over time, PCE was released to the subsurface through cracks in the floor, through the bottom of the trench drain, and/or through the trench drain discharge to the ground. A preliminary estimate of the area impacted by PCE based on the information obtained during the PSA is shown on **Figure 5**, and the area shown is approximately 2,000 sq ft. More data points are necessary to better delineate the horizontal and vertical extent, but the area as shown on **Figure 5** would equate to about 110 tons of soil per foot of excavation.

1,200 Gal UST. A 1,200 gallon (approximate) UST was identified at the northwest corner of the Parcel 28 building during intrusive investigations as shown on **Figure 5**. The long axis of the tank was parallel to King St and was approximately 3 ft north of the building. The tank contained approximately 270 gallons of fuel oil (diesel) and was directly beneath the asphalt with little cover. Boring P28-6 was immediately adjacent to the tank and contained no TPH or PID response. The tank was removed on June 9, 2008 and the tank closure will be documented under separate cover.

Building Perimeter. Seven borings (P28-6 through P28-11 and P28-13) were installed around the north and east perimeter of the Parcel 28 building. Organic vapors were not detected during field screening and the TPH and VOC analyses were not detected.

Lower Level - Boilers and Diesel Tanks. Existing and former boilers and diesel storage tanks exist in, or adjacent to, the lower level of the Parcel 28 building. Two borings (P28-15 and P28-16) were installed within the proposed easement north of the former UST that was reported by the owner to be removed. Organic vapors were not detected during field screening of soils and TPH was not detected above the detection limit. A trace of PCE was detected in P28-15. An existing diesel AST is located in the basement along with several former and existing boilers as shown in **Figure 5**. Areas in the floor were cored and three borings (P28- 22 through P28-24) were installed to approximately 6 ft bgs using a hand auger at locations shown in **Figure 5**. Organic vapors were not detected during field screening of soils and the TPH and VOCs were not detected above the detection limit.

<u>Permanent Drainage Easement</u>. Four borings were installed within the PDE located near the south end of Parcel 28. The current sanitary sewer line runs within the easement and flows toward the west. P28-17 and P28-14 were installed near the topographic low for the parcel, and it appears that the sanitary sewer line from the Trailway Laundry and dry cleaning operation drops into the sewer main in the middle of the easement.

No impacts were observed in P28-12 and P28-18, but PCE was detected in both P28-14 and P28-17 at depths of 12 ft bgs and 20 ft bgs respectively. Boring P28-17 was converted into a monitoring well (see **Appendix B** for well construction details) with a static water level of

approximately 21.5 ft bgs. The well was developed and purged and a sample was collected on May 7, 2008 and submitted for VOC analysis. A summary of the detections are provided below and a complete set of the analytical results are included in **Appendix C**.

Cis-1,2-Dichloroethene	28 ug/L
Tetrachloroethene	5,600 ug/L
Trans-1,2-Dichloroethene	1.2J ug/L
Trichloroethene	65 ug/L

Based on the above analytical results, groundwater in the vicinity of Parcel 28 is impacted with chlorinated solvents typical of the dry cleaning industry. With only one groundwater data point, it is not possible to address the nature and extent of impact. Several possibilities exist for the source of groundwater impact including:

- a subsurface release from the dry cleaning units that migrated to the shallow groundwater and down gradient to P27-17,
- a release from the dry cleaning units that was discharged to the Trailway sanitary sewer line that leaked,
- a release from the dry cleaning units that migrated to and then within the Trailway sanitary sewer bedding, and
- a release from upgradient and offsite sources that migrated along the sewer main bedding along the easement.

It is possible that the organic vapors and PCE concentrations in soil in this area are within the smear zone and are a result of a fluctuating water table impacted with PCE. Due to the depth of the impacted soil and because it may be the result of groundwater impact, an impacted soil zone is not denoted on **Figure 5**. It should be noted that PCE impacted soil may exist in the west portion of the PDE above 12 ft bgs, and therefore would need to be addressed if the construction of the hydraulic features required deeper excavation.

This geophysical investigation was conducted in accordance with reasonable and accepted engineering geophysics practices, and the interpretations and conclusions are rendered in a manner consistent with other consultants in our profession. All geophysical techniques have some level of uncertainty and limitations. No other representations of the reported information is expressed or implied, and no warranty or guarantee is included or intended.

- United States Environmental Protection Agency, <u>Contract Laboratory Program National</u> <u>Functional Guidelines for Organic Data Review</u>, 1999
- North Carolina Department of Transportation, <u>Request for Technical and Cost Proposal</u>, <u>Preliminary Site Assessment, Parcel 10, Daniel Boone Inn Property</u>, February 20, 2008
- URS Corporation North Carolina, Technical and Cost Proposal entitled: <u>Revised Technical</u> <u>and Cost Proposal, Preliminary Site Assessment, Parcel 10 Daniel Boone Inn Property</u>, March 7, 2008
- North Carolina Department of Transportation, <u>Notice to Proceed Preliminary Site Assessment</u>, <u>Parcel 10, Daniel Boone Inn Property</u>, March 7, 2008

Tables

Table 1SUMMARY OF SOIL ANALYTICAL RESULTSPARCEL 28TRAILWAY LAUNDRY PROPERTY320 EAST KING STREETBOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD		RY ANALYSES	VOC	
			SCREENING		E ORGANICS	8260	
LOCATION	DATE	DEPTH	PID	GRO	DRO	Tetrachloroethene	USCS
LOOATION	DATE	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	LITHOLOGY
P28-1	04/08/08	2.	97.3	ND (3.8)	34	13	
120-1	04/00/00	4.	29.1	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	OW
		10.	ND	-	-	-	
		12.	ND	ND (3.7)	ND (2.0)	0.02	
	<u> </u>	2.	ND	-	-	-	
P28-2	04/08/08	4.	ND	-	-	-	
	-	6.	ND	-	_	_	
	-	8.	ND	-	-	-	SM
	-	10.	ND		-	_	
	-	10.	ND	ND (3.6)	ND (2.0)	ND (0.00052)	
	ļļ	12.		ND (3.0)	ND (2.0)	ND (0.00032)	
P28-3	04/08/08	2.	ND	-	-	-	
	0.,00,00	4.	ND	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	
		10.	ND	-	-	-	
		12.	ND	ND (3.5)	ND (1.9)	ND (0.00051)	
	[[2.	ND	-	-	-	
P28-4	04/09/08	4.	ND	-	-	-	-
	-	6.	ND		-	-	-
	-		ND	-	-	-	SM
	-	8.		-	1	-	
		10.	ND	-		-	
	L I	12.	ND	ND (3.6)	ND (2.0)	0.0030 J	
D 00 C	0.4/00/00	2.	ND	-	-	-	
P28-5	04/09/08	4.	ND	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	ND (3.4)	ND (1.2)	0.013	
				(-)			
P28-6	04/00/09	2.	ND	-	-	-	
P28-0	04/09/08	4.	ND	-	-	-	CM .
		6.	ND	-	-	-	SM
		8.	ND	ND (4.4)	ND (1.6)	NA	
P28-7	04/09/08	2.	ND	-	-	-	-
		4.	ND	-	-	-	-
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	
		10.	ND	-	-	-	-
		12.	ND	ND (3.9)	ND (1.4)	ND (0.00061)	
Bac -	0.4/02/22	2.	ND	-	-	-	
P28-8	04/09/08	4.	ND	-	-	-	C 14
		6.	ND	-	-	-	SM
		8.	ND	ND (3.4)	ND (1.2)	NA	<u> </u>
P28-9	04/09/08	2.	ND	-	-	-	{
		4.	ND	-	-	-	{
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	{
		10.	ND	-	- ND (4.4)	-	-
		12.	ND	ND (4.0)	ND (1.4)	NA	

Table 1SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 28TRAILWAY LAUNDRY PROPERTY
320 EAST KING STREETBOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD	LABORATOR	RY ANALYSES	VOC	
			SCREENING		E ORGANICS	8260	
LOCATION	DATE	DEPTH	PID	GRO	DRO	Tetrachloroethene	USCS
LOOATION	DATE	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	LITHOLOGY
P28-10	04/09/08	2.	ND	-	-	-	
	0 11 0 01 0 0	4.	ND	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	
		10.	ND	-	-	-	
		12.	ND	ND (3.5)	ND (1.3)	ND (0.00063)	
		0	ND		1		
P28-11	04/09/08	2. 4.	ND ND	-	-	-	
		4. 6.	ND	-	-	-	
			ND		-	-	SM
		<u>8.</u> 10.	ND	-	-	-	
		10.	ND	ND (3.9)	ND (1.4)	NA	
	ļ	12.		ND (3.9)	ND (1.4)	INA I	
		2.	ND	-	-	-	
P28-12	04/09/08	4.	ND	-		-	1
		6.	ND	-	-	-	
		8.	ND	-	-	-	SM
		10.	ND	-	-	-	
		12.	ND	ND (4.3)	ND (1.6)	ND (0.00062)	
	<u> </u>		, ·· ,				
D 00.40	0.4/00/00	2.	ND	-	-	-	
P28-13	04/09/08	4.	ND	-	-	-	
		6.	ND	-	-	-	<u>CM</u>
		8.	ND	-	-	-	SM
		10.	ND	-	-	-	
		12.	ND	ND (4.1)	ND (1.5)	0.0048 J	
					•		
P28-14	04/09/08	2.	ND	-	-	-	
12014	04/00/00	4.	ND	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	
		10.	ND	-	-	-	
		12.	ND	ND (4.0)	ND (1.4)	5.4	
	1						
P28-15	04/11/08	2.	ND	-	-	-	
		4.	ND	-	-	-	{
		6.	ND	-	-	-	{
		8.	ND	-	-	-	SM
		10. 12.	ND ND	-	-	-	{
		12.	ND ND	-	-	-	1
		14.	ND	ND (3.7)	ND (1.3)	0.0028 J	1
	I	10.		ND (3.7)	110 (1.3)	0.0020 J	
		2.	ND	-	-	-	
P28-16	04/11/08	4.	ND	-	-	_	
					-	-	1
		6.	ND	-	-	-	
		6. 8.	ND ND	-	-	-	
		8.	ND	-	-		SM
		8. 10.	ND ND			-	SM
		8.	ND	-			SM

Table 1SUMMARY OF SOIL ANALYTICAL RESULTSPARCEL 28TRAILWAY LAUNDRY PROPERTY320 EAST KING STREETBOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD	LABORATOR	RY ANALYSES	VOC	
			SCREENING	TPH RANGE	E ORGANICS	8260	
LOCATION	DATE	DEPTH	PID	GRO	DRO	Tetrachloroethene	USCS
LOCATION	DATE	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	LITHOLOGY
P28-17	05/06/08	2.	ND	-	-	-	
F20-17	03/00/08	4.	ND	-	-	-	
		6.	ND	-	-	-	
Converted to a 1-		8.	ND	-	-	-	
inch diameter		10.	ND	-	-	-	
monitoring well		12.	ND	-	-	-	SM
		14.	ND	-	-	-	OM
		16.	ND				
		18.	6.9	-	-	-	
		20.	26.7	ND (4.3)	ND (1.5)	0.13	
		22.	NA	-	-	-	
		24.	NA	-	-	-	
					1		
P28-18	05/06/08	2.	ND	-	-	-	
. 20 . 0		4.	ND	-	-	-	
		6.	ND	-	-	-	SM
		8.	ND	-	-	-	0
		10.	ND	-	-	-	
		12.	ND	ND (4.0)	ND (1.5)	ND (0.00047)	
P28-19	05/06/08	2.	17.1	-	-	-	
		4.	147.2	-	-	-	SM
		6.	697	100.	470.	34	
-	0					-	014
P28-20	05/06/08	2.	30.3	ND (3.7)	ND (1.3)	4	SM
	0						014
P28-21	05/07/08	2.	6	-	-	1.8	SM
		0	ND				
P28-22	05/08/08	2.	ND	-	-	-	SM
	-	4.	ND	-		- ND (0.00000)	5101
		6.	ND	ND (3.8)	ND (1.4)	ND (0.00062)	
		2	ND	-	-	-	
P28-23	05/08/08	<u>2.</u> 4.	ND	-	-	-	SM
	-		ND				5101
		6.	ND	ND (3.7)	ND (1.3)	ND (0.00061)	
	Г	2.	ND	-	-	-	
P28-24	05/08/08	<u> </u>	ND	-	-	-	SM
	ŀ	<u>4.</u> 6.	ND	ND (3.8)	ND (1.4)	- ND (0.00059)	Sivi
		0.		110 (3.0)		110 (0.00039)	
		2.	ND	-	-	-	
P28-25	05/08/08	4.	ND	-	-	-	4
		6.	ND	-	-	-	4
		<u> </u>	ND	-	-	-	SM
		10.	ND		-		-
	-	10.	ND	ND (3.6)	ND (1.3)	0.07	1
		12.	ND	(0.C) UN	IND (1.3)	0.07	

Table 1 SUMMARY OF SOIL ANALYTICAL RESULTS PARCEL 28 TRAILWAY LAUNDRY PROPERTY 320 EAST KING STREET BOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD		RY ANALYSES	VOC	
			SCREENING	TPH RANGE	ORGANICS	8260	
LOCATION	DATE	DEPTH	PID	GRO	DRO	Tetrachloroethene	USCS
LOCATION	DATE	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	LITHOLOGY
P28-26	05/08/08	2.	15.7	ND (3.6)	ND (1.3)	0.34	
F 20-20	03/00/08	4.	11.6	-	-	-	
		6.	6.7	-	-	-	
		8.	4.1	-	-	-	
		10.	2	-	-	-	SM
		12.	ND	-	-	-	3101
		14.	ND	-	-	-	
		16.	ND	-	-	-	
		18.	ND	-	-	-	
		20.	ND	ND (3.5)	ND (1.2)	.0079 J	
	NCDENR	UST Section	Action Levels:	10	10		

NCDENR UST Section Action Levels: 10 NCDENR Non-UST Petroleum Action Levels: 10 Soil-to-Water Maximum Contaminant Concentration for Soil:

0.0074

40

LEGEND:

ft bgs - feet below ground surface

mg/Kg - milligrams per kilogram

ppm - parts per million

PID - Photo Ionization Detector (field screening results)

TPH - Total Petroleum Hydrocarbons

DRO - Diesel Range Organics (determined by laboratory via EPA Method 8015B)

GRO - Gasoline Range Organics (determined by laboratory via EPA Method 8015B)

J - Estimated

NA - Not analyzed

ND(7.3) - Not Detected above the indicated detection limit

USCS - Unified Soil Classification System.

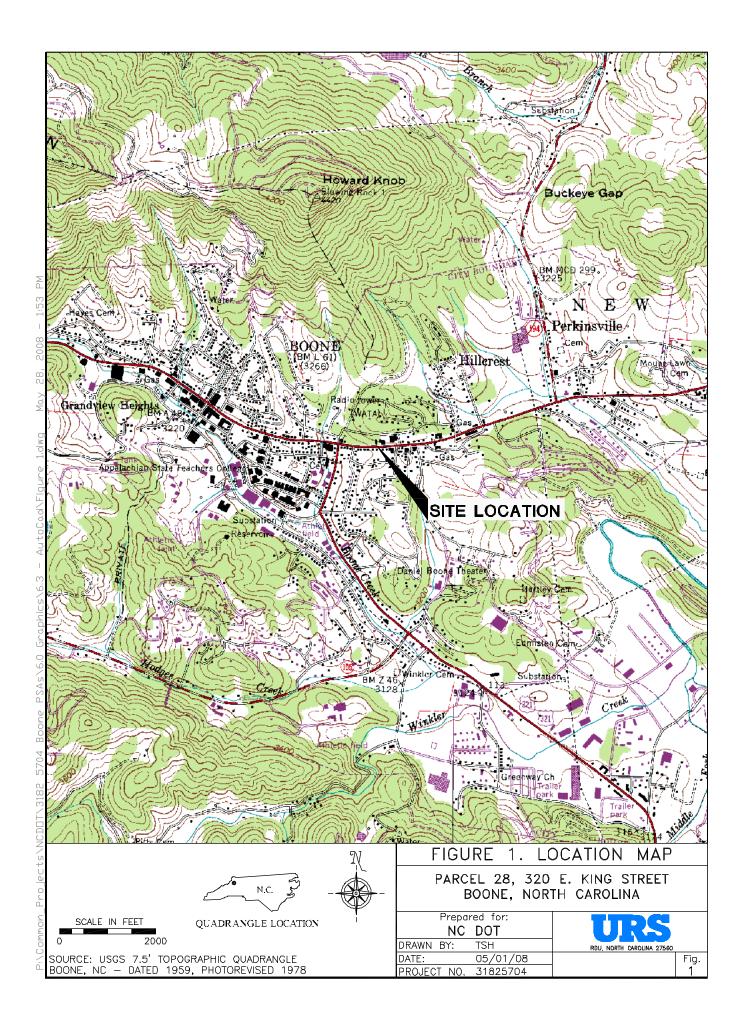
NOTES:

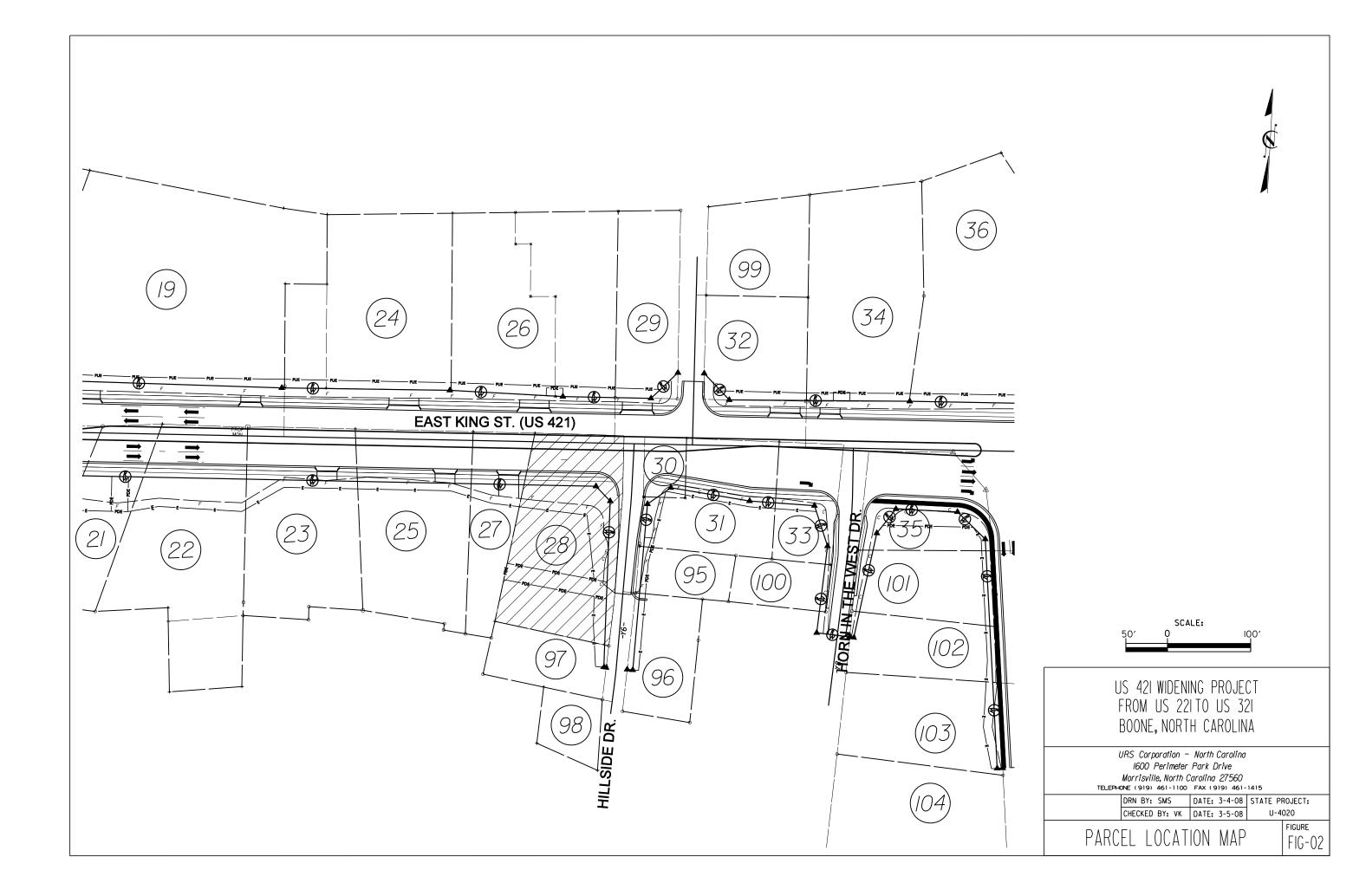
Soil samples were collected by URS on the dates shown.

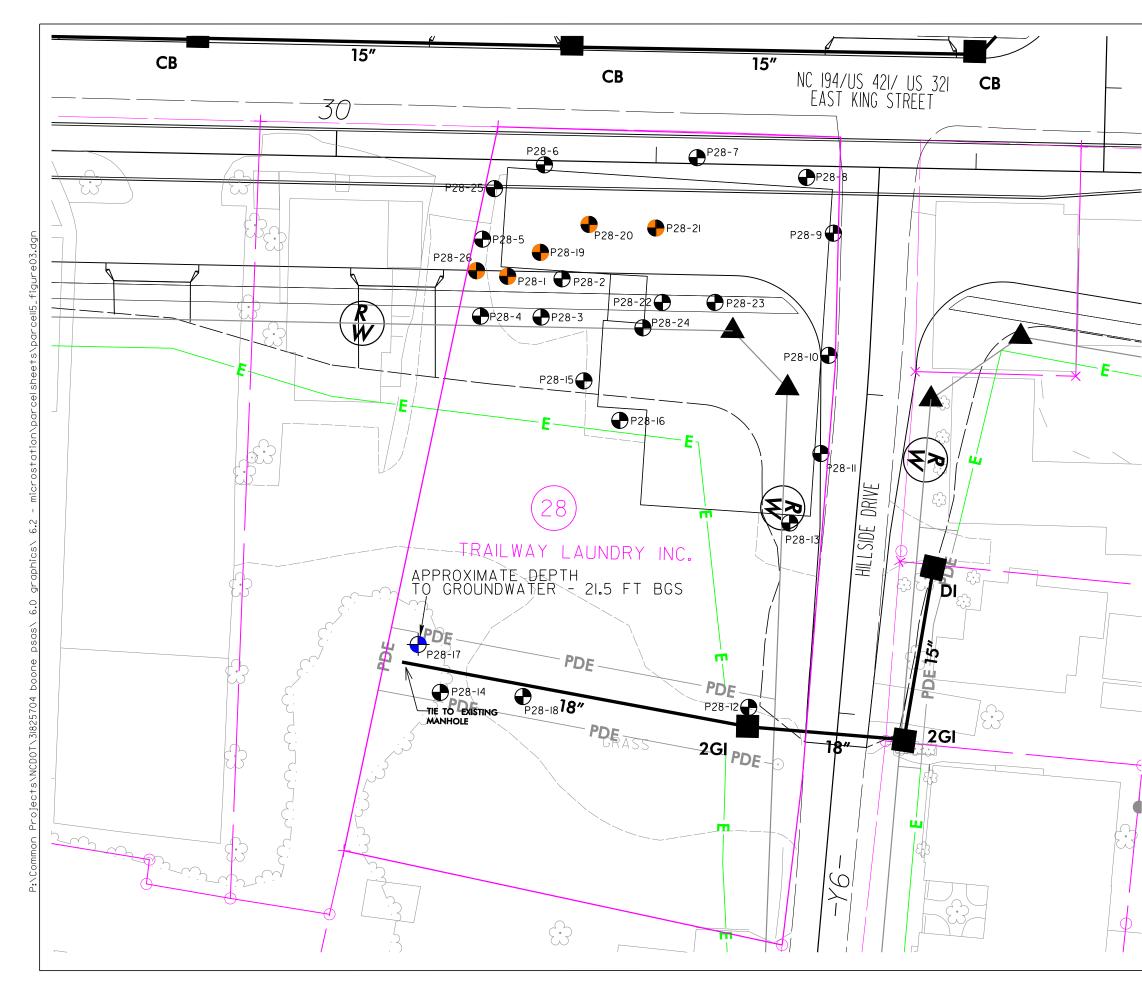
All results reported on a dry-weight basis.

Action Levels were taken from the NCDENR UST Section, <u>Guidelines for Assessment and Corrective Action</u> (NCDENR, UST Section, July 2001) and <u>Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum</u> <u>Releases</u> (NCDENR, UST Section, July 2007).

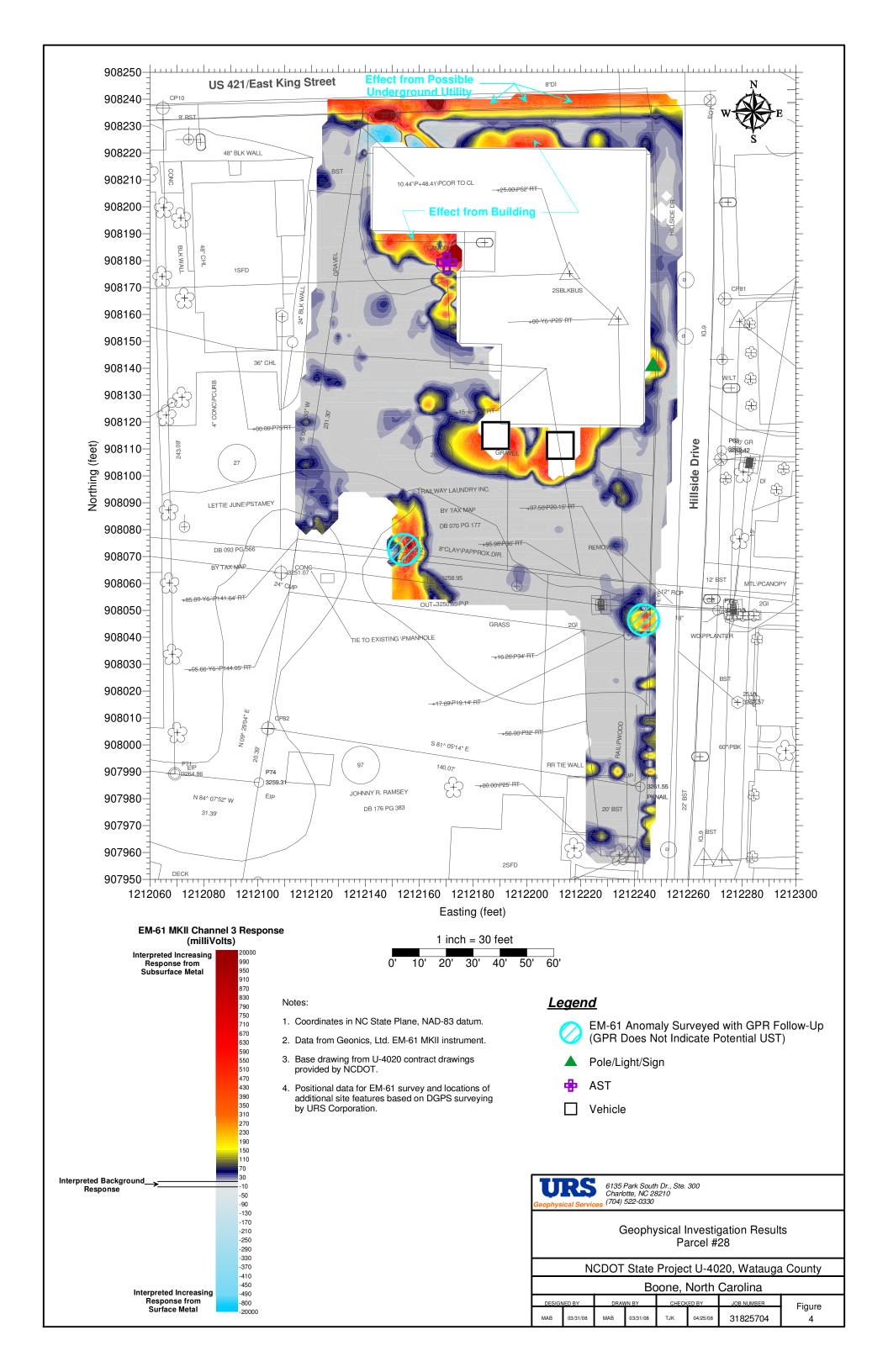
Figures

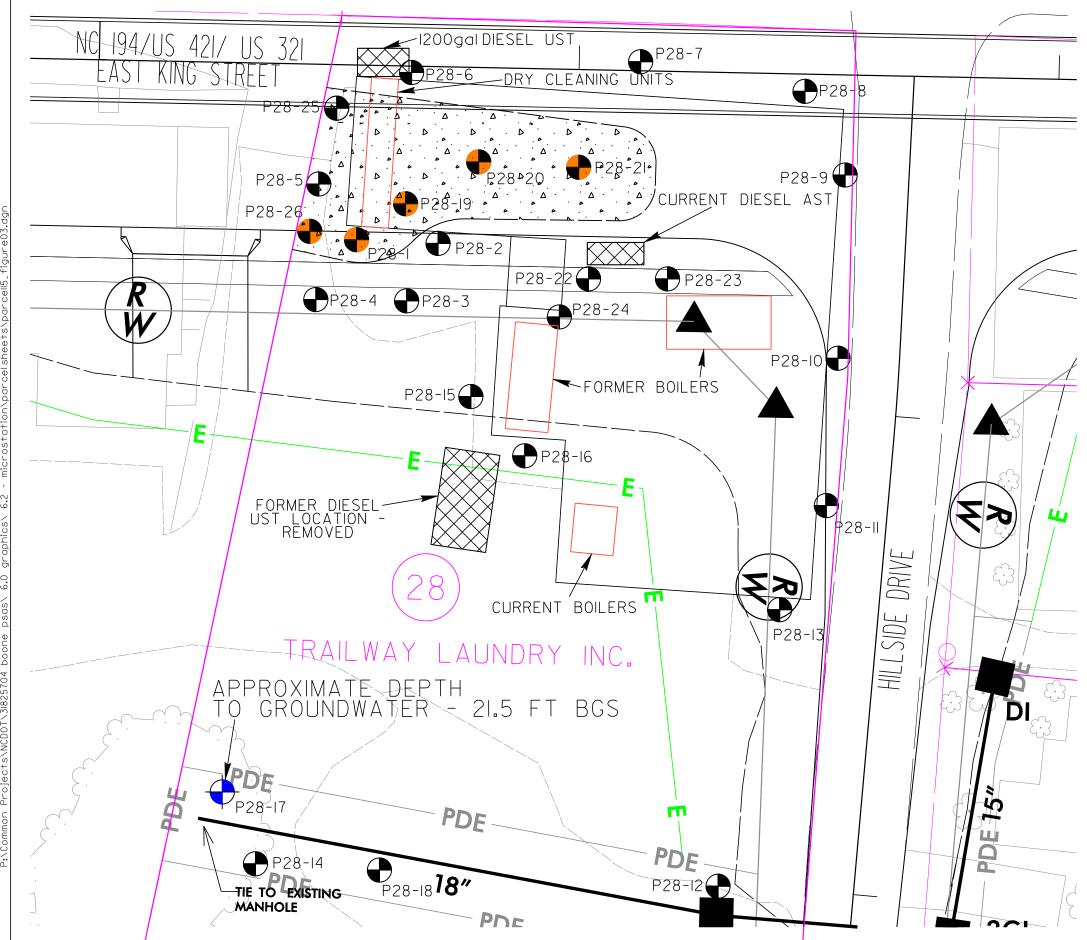


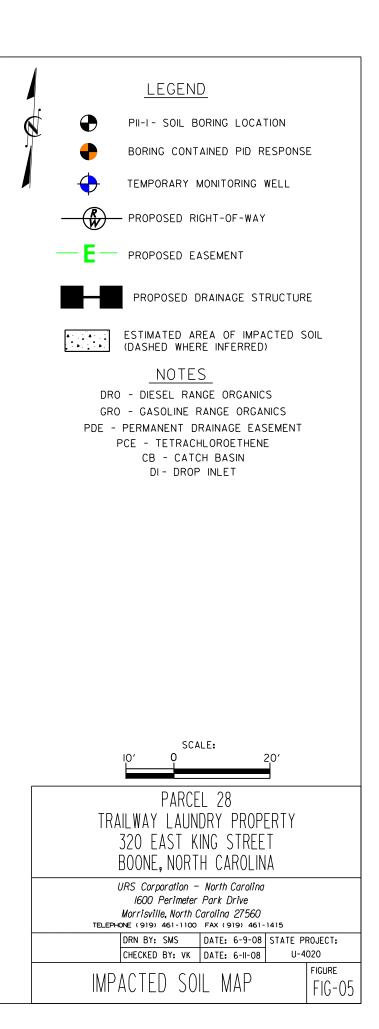




1	1					
		LE	GEND			
6	f e) PII-I - :	SOIL BORI	NG LOCATI	ON	
. 1	ł	BORING	CONTAIN	ed pid re	SPONSE	
	¢	- ТЕМРОГ	RARY MON	NTORING W	ELL	
=		PROPOS	SED RIGH	T-OF-WAY		
-	— Е	PROPOS	SED EASE	MENT		
		PROPO)SED DRA	INAGE STR	UCTURE	
		_N	IOTES			
-	DF	RO - DIESEL	RANGE O	RGANICS		
-	GF	RO - GASOLIN	NE RANGE	ORGANICS		
-	PI	DE - PERMAN	IENT DRA	NAGE EAS	EMENT	
-		CE - TETRAC		HENE		
-	(CB - CATCH				
		DI - DROP IN J - ESTIMAT				
-	SUMMA	RY OF D		IONS IN	I Mg∕⊦	<u>kg</u>
_	ID	DEPTH	GRO	DRO	PCE	
	P28-I	2′	ND	34	13	
	P28-I	12'	ND	ND	0.02	
	P28-4	12'	ND	ND	0.003J	
	P28-5	8′	ND	ND	0.013	_
	P28-I3	12'	ND	ND	0 . 0048J	-
_	P28-I4	12'	ND	ND	5.4	-
	P28-I5	16'	ND	ND	0.0028J	-
	P28-I7	20'	ND	ND	0.13	-
_	P28-19	6'	100	470	34	-
	P28-20	2'	ND	ND	4	-
	P28-21	2'	-	-	1.8	-
	P28-25	12'	ND	ND	0.07	-
_	P28-26	2'	ND	ND	0.34	-
-	P28-26	20′	ND	ND	0.0079J] [
			SCALE	:		
		15'	0		30'	
					<u> </u>	
- [PARCEL	28		
Ì					DTV	
		TRAILWAY	LAUNDE		117	
		BOONE,	, NORTH	CAROLIN	А	
				orth Carolina		
			Perimeter Po			
		Morrisville TELEPHONE (919)	e, North Card 461-1100 FA	olina 27560 xx (919) 461-1	1415	
ŀ		DRN BY:		TE: 6-9-08		ECT:
		CHECKED		ATE: 6-11-08	U-4020	
-					()	GURE
	201	_ SAMPL	ING LU	CATION	1) F	IG-03







Appendix A Photographic Log

NCDOT PARCEL 28 - TRAILWAY LAUNDRY PROPERTY 320 EAST KING STREET, BOONE, WATAUGA COUNTY, NC WBS ELEMENT 35015.1.1, TIP U-4020



Photograph 1: Parcel 28 facing east at the back of the dry cleaners.



Photograph 2: Parcel 28 facing southeast looking at the room with dry cleaning unit and UST location in front corner of building.

NCDOT PARCEL 28 - TRAILWAY LAUNDRY PROPERTY 320 EAST KING STREET, BOONE, WATAUGA COUNTY, NC WBS ELEMENT 35015.1.1, TIP U-4020



Photograph 3: Parcel 28 looking northwest along the east wall of Trailway dry cleaners.



Photograph 4: Parcel 28 coring next to the dry cleaning machine.

NCDOT PARCEL 28 - TRAILWAY LAUNDRY PROPERTY 320 EAST KING STREET, BOONE, WATAUGA COUNTY, NC WBS ELEMENT 35015.1.1, TIP U-4020



Photograph 5: Hand auger sampling next to the current AST in basement.



Photograph 6: Geoprobe temperary well installation at P28-17.

Appendix B Soil Boring Logs

Permit #				Drill Date	04/08/0	8	Site	Par	cel 28
Client N	ICDOT			Use			URS Corporation		
Address		Boone,	North	Carolina	1		Total Depth (ft)		12
Drilling Me				ect push	Boring Depth (ft)	12	Boring Diam. (in)		.25
Backfill Ma	aterial	benton	ite		NA		Static Water Level	unk	nown
	Groundwater	not enco	ounter	red	TOC Elevation	NA	Sample Method	Aceta	te liner
in boring									
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagran	
0					loose, dry, light l	prown, silty S	Sand (SM), organics		
2	P28-1-2	2'		97.3 ppm					
 4				29.1 ppm					
6				0.0 ppm		t brown silts	/ Sand (SM), mica		5
8				0.0 ppm	iouse, dry, iigh	t brown, sing			backfilled with bentonite
• 10				0.0 ppm					bac
	D 20 4 40			0.0 ppm		Bottom of bo		Not to S	cale
12 Notes:	P28-1-12	12'			1		illiy		
Geologist:		Michae	1.84		Driller: SAEDAC				

Permit #				Drill Date	04/08/0	8	Site	Parcel 28
	NCDOT			Use	04/08/0	0	URS Corporation	Faicei 20
Address	NODOT	Boone	North	Carolina			Total Depth (ft)	12
Drilling M	lethod			ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill N		benton		corpush	NA	12	Static Water Level	unknown
	Groundwater			red	TOC Elevation	NA	Sample Method	Acetate liner
in boring								
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, light b	orown, silty S	Sand (SM), organics	
 2				0.0 ppm				
4				0.0 ppm				
 6				0.0 ppm	loose dry ligh	brown silty	r Sand (SM), mica	5
4 4 6 8				0.0 ppm	iooso, diy, igi	, brown, sing	Gana (Gin), mea	backfilled with bentonite
° 10				0.0 ppm				pack
10 12	P28-2-12	12'		0.0 ppm		Sottom of bo	ring	Not to Scale
Notes:	F 20-2-12	12						
Geologis	+•	Michae	I Mees	20	Driller: SAEDAC	200		

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Permit #				Drill Date	04/08/0	8	Site	Parcel 28	}
Client	NCDOT			Use			URS Corporation		
Address		Boone,	North	Carolina	1		Total Depth (ft)	12	
Drilling M		Geopro	obe dir	ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25	
Backfill N	Material	benton	ite		NA		Static Water Level	unknowr	ו
	Groundwater	r not enc	ounter	red	TOC Elevation	NA	Sample Method	Acetate lin	er
in boring	_				T				
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram	
0					loose, dry, light b	orown, silty S	Sand (SM), organics		
 2				0.0 ppm					
 				0.0 ppm					
 6				0.0 ppm	Lagon dry ligh	t brown cilt	y Sand (SM), mica	4	
4 4 6 8				0.0 ppm	- Loose, dry, iigr	n brown, sin <u>i</u>	backfilled with bentonite		
° 10				0.0 ppm				pack	
10 12	P28-3-12	12'		0.0 ppm		3ottom of bo	rring	Not to Scale	
Notes:					1				
Geologis	st:	Michae	Mees	se	Driller: SAEDAC	000			

5	RS

					04/00/0	0	Cite	Derect 20
Permit #	NCDOT			Drill Date	04/09/0	0	Site	Parcel 28
	NCDOT	Deers		Use			URS Corporation	40
Address				Carolina	Device Devite (#)	40	Total Depth (ft)	12
Drilling Me				ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill Ma		benton					Static Water Level	unknown
	Groundwater	not enc	ounter	ed	TOC Elevation	NA	Sample Method	Acetate liner
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, ligh	brown silty	Sand (SM), gravel	
2				0.0 ppm				
4				0.0 ppm				
6				0.0 ppm	looso dry liet	t brown ciltu	Sand (SM), mica	5
8 —				0.0 ppm	liouse, ury, iigi	t brown sity	Sana (Sivi), mica	backfilled with bentonite
				0.0 ppm				pac
				0.0 ppm				Not to Scale
12 Notes:	P28-4-12	12'				Bottom of bo	ring	
	:		I Mees		Driller: SAEDAC			

URS	U	RS
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		<u> </u>				1	
Permit #			Drill Date	04/09/0	8	Site	Parcel 28
Client NCDOT			Use			URS Corporation	
Address	Boone,	North	Carolina	I		Total Depth (ft)	8
Drilling Method	Geopro	be dire	ect push	Boring Depth (ft)	8	Boring Diam. (in)	2.25
Backfill Material	bentoni	ite		NA		Static Water Level	unknown
Rmrks Groundwate	Rmrks Groundwater not encountered					Sample Method	Acetate liner
in boring				1			
Depth (ft.)	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0				loose, dry, light	brown silty	Sand (SM), gravel	
2			0.0 ppm				
4			0.0 ppm				
			0.0 ppm	loose, dry, ligh	t brown silty	<	
 P28-5-8	8'	-	0.0 ppm				backfilled with bentonite
8					Refusal at	8'	pack
							_
 10							
_							
_							
12							Not to Scale
Notes:				1			
			е	Driller: SAEDAC			

Permit #				Drill Date	04/09/0	8	Site	Parc	el 28
Client N	CDOT			Use			URS Corporation		
Address				Carolina	[Total Depth (ft)		3
Drilling Me				ect push	Boring Depth (ft)	8	Boring Diam. (in)		25
Backfill Ma		benton			NA		Static Water Level		nown
	roundwater	not enc	ounter	ed	TOC Elevation	NA	Sample Method	Aceta	te liner
in boring									
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram	
0						asphalt			
2				0.0 ppm					
4				0.0 ppm					
6				0.0 ppm	loose, dry, ligh	t brown silty		≤1	
	P28-6-8	8'		0.0 ppm					backfilled with bentonite
8					İ.	Refusal at	8'		back
 10									-
12								Not to So	ale
Notes:		Michae	I Moor			200			
Geologist:		Michae	i wees	e e	Driller: SAEDAC				

URS	U	J	25	
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				0.4/00/0	0	Site	Derec / 20
Permit # Client NCDOT			Drill Date Use	04/09/0	5		Parcel 28
Address	Boono		Carolina			URS Corporation Total Depth (ft)	12
				Poring Dopth (ft)	12		2.25
Drilling Method Backfill Material	benton		ect push	Boring Depth (ft)	12	Boring Diam. (in) Static Water Level	unknown
Rmrks <i>Groundwater</i>			ad	TOC Elevation	NA	Sample Method	Acetate liner
n boring	notence	ounter	eu		INA		Acetate inter
Depth (ft.) Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					asphalt		
2			0.0 ppm	_			
4			0.0 ppm				
4 — 			0.0 ppm	loose, dry, ligh	brown cilt	≤1	
8 —			0.0 ppm	ioose, dry, iign	, biown, sing	backfilled with bentonite	
• 10			0.0 ppm				pag
			0.0 ppm				Not to Scale
12 P28-7-12	12'			E	Bottom of bo	ring	
lotes: Geologist:	Michae		_	Driller: SAEDAC			

URS

Permit #			Drill Doto	04/09/0	0	Site	Parcel 28
Client NCDOT			Drill Date	04/09/0	0		Parcer 20
Address	Boono	North	Use			URS Corporation	8
			Carolina	Baring Donth (ft)	8	Total Depth (ft)	2.25
Drilling Method Backfill Material	benton		ect push	Boring Depth (ft)	0	Boring Diam. (in) Static Water Level	2.25 unknown
			a d		NA		
Rmrks Groundwate In boring	r not enc	ounter	ea	TOC Elevation	NA	Sample Method	Acetate liner
Depth (ft.)	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					asphalt		
2			0.0 ppm	_			
4			0.0 ppm				
 6			0.0 ppm	loose, dry, ligh	t brown silty	≤1	
	8'		0.0 ppm				backfilled with bentonits
8					Refusal at	8'	pack
 10							
_							
							Not to Scale
_							
12 Notes:							

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Permit #			Drill Date	04/09/0	0	Site	Parce	1.20
Client NCDOT Use				04/09/0	J	URS Corporation	rarce	1 20
Address		o North					12	1
			Carolina	Dariag Darth (ff)	10	Total Depth (ft)		
Drilling Methoo Backfill Materia			ect push	Boring Depth (ft)	12	Boring Diam. (in) Static Water Level	2.2 unkno	
			in d		NI A			
	ndwater not en	counter	ea	TOC Elevation	NA	Sample Method	Acetate	liner
Depth (ft.) Sample ID Sample Blows/ 6" Blows/ 6"				Geologic Description		cription	Typical Diagram	
0					asphalt			
2			0.0 ppm					
4			0.0 ppm					
6			0.0 ppm	loose dry lidb	brown silty	(Sand (SM), mica	-	ন
4 —			0.0 ppm	loose, dry, light brown, silty Sand (SM), mica				backfilled with bentonite
• 			0.0 ppm					baci
			0.0 ppm				Not to Sca	ale
	3-9-12 12'			E	ottom of bo	ring		
lotes:		el Mees		Driller: SAEDAC				

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Permit #				Drill Date	04/09/0	8	Site	Par	cel 28
	NCDOT			Use		-	URS Corporation		
Address		Boone,	North	Carolina			Total Depth (ft)		12
Drilling N				ect push	Boring Depth (ft)	12	Boring Diam. (in)		.25
Backfill N		benton			NA		Static Water Level	unk	nown
Rmrks	Groundwater	not enc	ounter	red	TOC Elevation	NA	Sample Method	Aceta	ate liner
in borin	g								
Depth (ft.) Sample ID Sample Depth (ft) Blows/ 6" OVA (ppm)				OVA (ppm)	Geologic Description		Typica Diagrar		
0						asphalt			
 2				0.0 ppm					
4				0.0 ppm					
6				0.0 ppm	loose dry ligh	t brown siltu	Sand (SM) mica		4
6 6 8				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica				backfilled with bentonite
				0.0 ppm					paci
10 12	P28-10-12	12'		0.0 ppm		Bottom of bo	ring	Not to S	cale
Notes:	0 10 12			I			<u> </u>	l	
Geologis	st:	Michae	I Mees	se	Driller: SAEDAC	co			

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Permit #	:			Drill Date	04/09/0	8	Site	Parcel 28
Client	NCDOT			Use			URS Corporation	
Address		Boone,	North	Carolina			Total Depth (ft)	12
Drilling N	/lethod	Geopro	be dir	ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill N	Material	benton	ite		NA		Static Water Level	unknown
Rmrks	Groundwater	not enc	ounter	ed	TOC Elevation	NA	Sample Method	Acetate liner
in borin	g				-			
Depth (ft.)	Depth (ft.) Sample ID Sample Depth (ft) Blows/ 6" OVA (ppm)				Geologic Description		Typical Diagram	
0						asphalt		
 2				0.0 ppm				
4				0.0 ppm				
6				0.0 ppm	loose dry ligh	brown siltu	Sand (SM), mica	≤1
4 6 8				0.0 ppm	iouse, dry, ngn	, biowit, sity	backfilled with bentonits	
0 10				0.0 ppm				paci
10 12	P28-11-12	12'		0.0 ppm		Bottom of bo	ing	Not to Scale
Notes:	120-11-12	12	I		<u> </u>			
Geologis	st:	Michae	I Mees	e	Driller: SAEDAC	co		

U	RS

Permit #				Drill Date	04/09/0	8	Site	Parcel 28
Client	NCDOT			Use			URS Corporation	
Address		Boone,	North	Carolina			Total Depth (ft)	12
Drilling N	/lethod	Geopro	obe dir	ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill N	Vaterial	benton	ite		NA		Static Water Level	unknown
Rmrks	Groundwater	not enc	ounter	red	TOC Elevation	NA	Sample Method	Acetate liner
in borin <u>ę</u>	g							
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, light l	prown, silty S	Sand (SM), organics	
 2				0.0 ppm	-			
4				0.0 ppm				
				0.0 ppm		t brown with	Sand (SM), mica	5
4 4 6 8				0.0 ppm		t brown, siity	Sanu (Sivi), filica	backfilled with bentonite
				0.0 ppm				pac
10 12	P28-12-12	12'		0.0 ppm		Bottom of bo	ring	Not to Scale
Notes:	F 20-12-12	12	I		<u> </u>		y	
Geologis	st:	Michae	l Mees	se	Driller: SAEDAC	200		

Permit #				Drill Date	04/09/0	8	Site	Parcel 28
Client	NCDOT			Use			URS Corporation	
Address		Boone,	North	Carolina			Total Depth (ft)	12
Drilling N	lethod	Geopro	be dir	ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill M	<i>A</i> aterial	benton	ite		NA		Static Water Level	unknown
Rmrks	Groundwater	not ence	ounter	red	TOC Elevation	NA	Sample Method	Acetate liner
in boring	g							
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	llogic Des	cription	Typical Diagram
0					loose,dry, light b	orown, silty S	and (SM), organics	
 2				0.0 ppm	-			
2 4				0.0 ppm				
 6				0.0 ppm		4 h-row 14	Cond (CM miss	5
8 — 8 —				0.0 ppm	lioose,dry, lign	t brown, silty	Sand (SM, mica	backfilled with bentonite
				0.0 ppm				pac
-				0.0 ppm				Not to Scale
12 Notes:	P28-13-12	12'		I		Bottom of bo	nng	
Geologis	.4.	Michae	Moor		Driller: SAEDAG	200		

URS	

					0.1/00/0	•	0.1	
Permit #				Drill Date	04/09/0	8	Site	Parcel 28
Client Address	NCDOT	Deeme	Novék	Use			URS Corporation	40
				Carolina ect push	Boring Depth (ft)	12	Total Depth (ft) Boring Diam. (in)	<u> </u>
Drilling M Backfill N		benton		ecipusn	NA	12	Static Water Level	unknown
	Groundwater			od	TOC Elevation	NA	Sample Method	Acetate liner
in boring		notenc	ounter	eu			Sample Method	Acetate inter
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, light l	prown, silty S	and (SM), organics	
 2				0.0 ppm				
4				0.0 ppm				
6				0.0 ppm	losso dar liab	t brown, cilitat	Sand (SM) mice	5
4 6 8				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica			backfilled with bentonite
• 10				0.0 ppm				pact
-				0.0 ppm				Not to Scale
12	P28-14-12	12'			E	Bottom of bo	ing	
lotes:								
Geologis	st:	Michae	I Mees	e	Driller: SAEDAC	:00		

|--|

Permit #				Drill Date	04/11/0	8	Site	Pai	rcel 28
	NCDOT			Use	• # • # •	•	URS Corporation		
ddress		Boone,	North	Carolina			Total Depth (ft)		16
Drilling N				ect push	Boring Depth (ft)	16	Boring Diam. (in)	2	2.25
Backfill N		benton		•	NA		Static Water Level	uni	known
				red	TOC Elevation	NA	Sample Method	Acet	ate liner
n borin	g			_					
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typica Diagrai	
0					loose, dry, light b	prown, silty S	Sand (SM), organics		
				0.0 ppm	-				
4 —				0.0 ppm	-				
4 				0.0 ppm					
				0.0 ppm	loose, dry, ligh	t brown, silty			
				0.0 ppm					
 12				0.0 ppm	-				5
				0.0 ppm					backfilled with bentonite
 16	P28-15-16	16'		0.0 ppm	E	Bottom of bo	ring		skfilled w
									рас
20									
24								Not to S	scale
Lotes:	Į	1	1	l	I				
eologis	st:	Michae	Mees	se	Driller: SAEDAC	co			

De marit //					0.4/4.4/0	0	0:4-		Dama a / 00
Permit #				Drill Date	04/11/0	8	Site		Parcel 28
	NCDOT	Deeme	Novék	Use			URS Corporation		46
Address				Carolina	Daring Darth (ff)	46	Total Depth (ft)		16
Drilling Method Geoprobe direct push Backfill Material bentonite					Boring Depth (ft)	16	Boring Diam. (in) Static Water Level		2.25 unknown
Rmrks in boring	Groundwater	not enc	ounter	ea	TOC Elevation	NA	Sample Method	A	cetate liner
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription		pical gram
0					loose, dry, light b	prown, silty S	Sand (SM), organics		
_				0.0 ppm	4				
4				0.0 ppm	-				
4 8 				0.0 ppm					
8 —				0.0 ppm	loose, dry, ligh	t brown, silty			
				0.0 ppm					
				0.0 ppm					5
				0.0 ppm					backfilled with bentonite
16 —	P28-16-16	16'		0.0 ppm	E	Bottom of bo	ring		kfilled w
_									pac
_									
—									
20									
_									
								Not to	o Scale
24									
Notes: Geologis	·+·	Michae	Moor	20	Driller: SAEDAC	200			
Jeologis	ot.	wiichde	n mees		Diller. SAEDAU				



WELLLOG:

P28-17

Permit #	N/A		Drill Dat	e 05/06 /	/08	Site	Parcel 28	
Client NC DOT Use				Monitoring Well		URS Loc. #	P28-17	
			Street, Boone, North Carolina			Total Depth (ft)	24	
Drilling Method			oprobe	Boring Depth (ft)	24	Boring Diam. (in)	2.25	
Casing/Scrn. Mat		PVC	1	Csg/Scrn Diam (in)	1	Csg Length(ft)	14	
Grout Type	NA		Grout In	terval (ft) NA	to NA	Scrn Length (ft)	10	
Csg Seal Type	Csg Seal Type NA		Seal Inte		to NA	Scrn Slot Size (in)	0.010	
Sand Pack Type	#2 San	d	Sand Int		to 24	Static Water Level	NA	
Rmrks				TOC Elevation	NA	Sample Method	Acetate liner	
Slight odor in bo	ttom of k	ooring						
D (#	(ft)	.0	Ê				Typical	
Depth (ft.)	Sample Depth (ft)	Blows/ 6"	PID (ppm)	Geo	logic Descript	ion	Diagram	
Dep	Sa Def	Blo					∠ ¶////////////////////////////////////	
					ailty Sand /C	(A) mino organiza		
0_			0	Loose, dry, brown,	silly sand (Si	vi) mica, organics		
-								
-1			0				ee / / /	
-							rete ve steel	
5 —			0				concrete v v v v v v v v v v v v v v v v v v	
				ł				
-			0				grout	
_							casin	
			0					
10 —			-					
_			0	Loose, dry, light	brown, silty S	and (SM) mica	S S	
			0					
			0					
15 —			0				avel	
							111111111	
			6.9				san san	
_								
4			26.7				well	
20 - P28-17-20	20	Π						
_		∇	0				V	
_				Loose, wet, light	brown, silty S	and (SM) mica		
-			0	-	-			
24				Bo	ottom of Boring)		
_								
-								
-								
-								
-							Not to Scale	
Notes:			I					
Geologist:	Michae	I Ma		Driller: SAEDACCO	`			

NA = Not Applicable



WELLLOG:

P28-17

	N/A		Drill Date		05/06/08			Site	Parcel 28	
			Use Monitoring Well URS Loc. #					URS Loc. #	P28-17	
Address				one, Nortl	n Carolina			Total Depth (ft)	24	
Drilling Method	Direct P		probe	Boring Dep	· · ·		24	Boring Diam. (in)	2.25	
Casing/Scrn. Mat Sch. 40 PVC		PVC		Csg/Scrn [Diam (in)		1	Csg Length(ft)	14	
Grout Type NA			Grout Int	erval (ft)	NA	to	NA	Scrn Length (ft)	10	
Csg Seal Type NA		:	Seal Inte	rval (ft)	NA	to	NA	Scrn Slot Size (in)	0.010	
Sand Pack Type	#2 Sand		Sand Int	erval (ft)	12	to	24	Static Water Level	NA	
Rmrks				TOC Eleva	ation		NA	Sample Method	Acetate liner	
light odor in bot	ttom of bo	oring								
Depth (ft.) Sample ID	Sample Depth (ft)	Blows/ 6"	PID (ppm)		Geologi	c Des	scriptio	n	Typical Diagram	
0	20		2.8		grey, coarse sanc	odor		quartz and rock, no quartz and rock, no	Not to Scale	

NA = Not Applicable

Permit #				Drill Date	05/06/0	8	Site	Parcel 28
	NCDOT			Use			URS Corporation	
Address		Boone,	North	Carolina	1		Total Depth (ft)	12
	Drilling Method Geoprobe direct push		Boring Depth (ft)	12	Boring Diam. (in)	2.25		
Backfill N	/laterial	benton	ite		NA		Static Water Level	unknown
Rmrks	arks Groundwater not encountered			TOC Elevation	NA	Sample Method	Acetate liner	
in boring	g	-			1			
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, light l	prown, silty S	Sand (SM), organics	
 2				0.0 ppm	_			
2 4 				0.0 ppm				
 6				0.0 ppm	looso dry ligh	t brown, cilt	^y Sand (SM), mica	5
8 — 8 —				0.0 ppm		t brown, siny	Sanu (Sivi), mica	backfilled with bentonite
 10				0.0 ppm				pac
10 12	D20 40 42	10		0.0 ppm		Bottom of bo	ring	Not to Scale
Notes:	P28-18-12	12'			<u> </u>		iiiig	
Geologis		Michae			Driller: SAEDAG			

URD

Permit #				Drill Date	05/06/0	8	Site	Parcel	28
Client	NCDOT			Use			URS Corporation		
Address		Boone,	North	Carolina			Total Depth (ft)	6	
Drilling N	Vethod	core, h	and au	ıger	Boring Depth (ft)	6	Boring Diam. (in)	2.25	
Backfill N	Backfill Material bentonite			NA		Static Water Level	unknor	wn	
Rmrks	mrks Groundwater not encountered				TOC Elevation	NA	Sample Method	hand au	ıger
in borin	g			1	I				
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	ologic Des	cription	Typical Diagram	
0						concrete			
 2				17.1 ppm					
 				147.2 ppm	loose, dry, ligt	nt brown silty	Sand (SM), mica		
	P28-19-6	6'		697 ppm				<	I
6 —						Refusal at	6'		nite
 8									backfilled with bentonite
10 <u> </u>	•								
 12								Not to Sca	le
Notes:									
Geologis	st:	Michae	I Mees	se	Driller: SAEDA	:00			

URS	
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Permit #				Drill Date	05/06/0	8	Site	Pa	rcel 28	
	NCDOT			Use	03/00/0	0		S Corporation		
Address Boone, North Carolina							Total Depth (ft)		2	
		Boring Depth (ft)	2	Boring Diam. (in)		2.25				
Backfill Material bentonite			NA		Static Water Level		known			
					TOC Elevation	NA	Sample Method		d auger	
in borin					•		•		•	
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	(mqq) AVO	Geo	ologic Des	cription	Typica Diagra		
0						concrete				
2	P28-20-2	2'		30.3 ppm	loose, dry, ligh	t brown silty	Sand (SM), gravel			
						Refusal at	2'			
4										
									5	
6 8										
									inton	
									th be	
									pe M	
8 —									backfilled with bentonite	
									q	
10										
								Not to S	Scale	
12										
Notes:					1		· · · · ·			
Geologis	st:	Michae	l Mees	e	Driller: SAEDA	000				

URS	U	RS
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Permit #				Drill Date	05/07/0	8	Site	Paro	cel 28
	NCDOT			Use			URS Corporation		
Address		Boone,	North	Carolina			Total Depth (ft)		2
Drilling N		core, h		ıger	Boring Depth (ft)	2	Boring Diam. (in)		25
Backfill N	Vaterial	benton	ite		NA		Static Water Level	unk	nown
Rmrks	Groundwater	not ence	ounter	ed	TOC Elevation	NA	Sample Method	hand	auger
in borin	g		-						
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	(mqq) AVO	Geo	ologic Des	cription	Typical Diagram	
0						concrete			
2	P28-21-2	2'		6.0 ppm	loose, dry, ligh	t brown silty	Sand (SM), gravel		
						Refusal at	2'		
4 —									
									_
6 —									<┐
									onite
									bent
									with
									illed
8 —									backfilled with bentonite
10									
								Not to Se	cale
12									
Notes:									
Geologis	st:	Michae	I Mees	e	Driller: SAEDA	000			

Permit #				Drill Date	05/08/0	0	Site	Parc	01.28
	NCDOT			Use	05/08/0	0	URS Corporation	Fait	ei 20
Address		Boone	North	Carolina			Total Depth (ft)	6	:
Drilling N		hand a		Caronna	Boring Depth (ft)	6	Boring Diam. (in)	2.2	
Backfill N		benton			NA	0	Static Water Level	unkn	
	Groundwater			red	TOC Elevation	NA	Sample Method	hand	
in boring		1101 0110	ountor	04	100 Elovatori				uugoi
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram	
0 2				0.0 ppm					
 4				0.0 ppm	loose, dry, ligt	t brown silty	Sand (SM), mica		
	P28-22-6	6'		0.0 ppm					<∣
6 —						Refusal at	6'		nite
8									backfilled with bentonite
 10 									
 12								Not to So	ale
Notes:									
Geologis	st:	Michae	l Mees	se .	Driller: SAEDAC	cco			

Permit #				Drill Date	05/08/0	8	Site	Par	cel 28
	NCDOT			Use			URS Corporation		
Address				Carolina			Total Depth (ft)		6
Drilling N		hand a			Boring Depth (ft)	6	Boring Diam. (in)		2.25
Backfill N		benton		-	NA		Static Water Level		known
	Groundwater	not enc	ounter	red	TOC Elevation	NA	Sample Method	hand	d auger
in borin									
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typica Diagrar	
0 				0.0 ppm					
 4				0.0 ppm	loose, dry, ligh	it brown silty	Sand (SM), mica		
6	P28-23-6	6'		0.0 ppm					≤1
°						Refusal at	6'		uite
8 —									backfilled with bentonite
 10									
_									
 12								Not to S	icale
Notes:					-				
Geologis	st:	Michae	l Mees	se	Driller: SAEDAC	co			

UKS	J	Л	RS
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Permit #				Drill Date	05/08/0	8	Site	Parc	el 28
	NCDOT			Use		-	URS Corporation		
Address		Boone,	North	Carolina			Total Depth (ft)		6
Drilling N		core, h			Boring Depth (ft)	6	Boring Diam. (in)		25
Backfill N		benton			NA		Static Water Level	unkı	nown
Rmrks	Groundwater	not enco	ounter	red	TOC Elevation	NA	Sample Method	hand	auger
in borin	g								
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram	
0						concrete			
				0.0 ppm					
2 4				0.0 ppm	loose, dry, ligt	t brown silty	Sand (SM), mica		
4 — — — 6 —	P28-24-6	6'		0.0 ppm					≤
6 —	120240	Ū				Refusal at	6'		
									backfilled with bentonite
									pao
 10									
								Not to So	cale
12									'
Notes:									
Geologis	st:	Michae	I Mees	se	Driller: SAEDA	:00			

Permit #				Drill Date	05/08/0	8	Site	Parcel 28
	NCDOT			Use		-	URS Corporation	
Address		Boone,	North	Carolina			Total Depth (ft)	12
Drilling M				ect push	Boring Depth (ft)	12	Boring Diam. (in)	2.25
Backfill N		benton	ite		NA		Static Water Level	unknown
Rmrks	Groundwater	not enc	ounter	red	TOC Elevation	NA	Sample Method	Acetate liner
in boring	g							
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription	Typical Diagram
0					loose, dry, light l	prown, silty S	and (SM), organics	
 2				0.0 ppm				
 4				0.0 ppm				
 6				0.0 ppm	loose, dry, ligh	t brown, cilture	5	
8 —				0.0 ppm		t DIOWII, Silty	backfilled with bentonite	
 10				0.0 ppm				pac
				0.0 ppm				Not to Scale
12	P28-25-12	12'				Bottom of bo	ring	
Notes:	.4.	Michai	1			200		
Geologis	ol.	Michae	i wees	9 0	Driller: SAEDAC			

Permit #	ŧ			Drill Date	05/08/0	8	Site		Parcel 28
Client	NCDOT			Use			URS Corporation		
Address	5	Boone,	North	Carolina	1		Total Depth (ft)		20
Drilling N	Method	Geopro	obe dir	rect push	Boring Depth (ft)	20	Boring Diam. (in)		2.25
Backfill I	Material	benton	ite		NA		Static Water Level		unknown
Rmrks	Groundwater	not enco	ounter	red	TOC Elevation	NA	Sample Method	A	Acetate liner
in borin	<u>ig</u>	1		1	1				
Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geo	logic Des	cription		rpical agram
0	1				loose, dry, light	brown, silty	Sand (SM), gravel		
				15.7 ppm					
4 —				11.6 ppm	-				
				6.7 ppm					
8 —				4.1 ppm	loose, dry, ligh	t brown, silty	Sand (SM), mica		
				2.0 ppm					
 12				0.0 ppm					<₁
				0.0 ppm					backfilled with bentonite
 16				0.0 ppm					kfilled wi
				0.0 ppm					par
 20	P28-26-20	20'		0.0 ppm		Bottom of bo	ing	_	
24	-							Not t	to Scale
Notes:	<u> </u>	ı		L	I				
Geologis	st:	Michae	I Mees	se	Driller: SAEDAC	co			

Appendix C Laboratory Report



Case Narrative

Date:04/22/08Company:N. C. Department of TransportationContact:Martha Meyers-LeeAddress:c/o URS1600 Perimeter Park Dr. Suite 400Morrisville, NC 27560

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s): NCDOT: Boone - Parcel 28 G0408278 4/8/2008 thru 4/9/2008 04/09/08

Client Project Name Or No: State Project: U-4020/ 320 E. King

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

Analysis Note for Q31874 MSD Diesel Range Organics (DRO): MSD recovery outside the control limits.

Volatile Analysis

Analysis Note for Q31741 MS Trichloroethene: Recovery outside of the control limits. Matrix interference is suspected.

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:	Rolli a. Jonen	Signature:	Rott: a. Joven
Review Date:	04/22/08	Approval Date:	04/22/08

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.



Laboratory Report

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-1-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210956	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/08/08	16:15
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	82.0	%			1	SM2540 G	04/11/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.64	g			1	5035	04/11/08 0:00	Ibrown	
Weight Bisulfate 2	5.64	g			1	5035	04/11/08 0:00	Ibrown	
Weight Methanol	5.04	g			1	5035	04/11/08 0:00	lbrown	
Volatile Organic Compounds by G									
1,1,1-Trichloroethane	BRL	mg/kg		0.00064	1	8260B	04/15/08 21:56		Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00039	1	8260B	04/15/08 21:56		Q31741
1,1,2-Trichloroethane	BRL	mg/kg		0.00057	1	8260B	04/15/08 21:56		Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0054	0.00062	1	8260B	04/15/08 21:56	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0054	0.00093	1	8260B	04/15/08 21:56	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0054	0.00064	1	8260B	04/15/08 21:56	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0054	0.00062	1	8260B	04/15/08 21:56	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0054	0.00072	1	8260B	04/15/08 21:56	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0054	0.0007	1	8260B	04/15/08 21:56	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0054	0.00027	1	8260B	04/15/08 21:56	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0054	0.00067	1	8260B	04/15/08 21:56	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0054	0.00035	1	8260B	04/15/08 21:56	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0054	0.00061	1	8260B	04/15/08 21:56	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0054	0.0013	1	8260B	04/15/08 21:56	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0054	0.00045	1	8260B	04/15/08 21:56	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0054	0.00036	1	8260B	04/15/08 21:56	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0054	0.00023	1	8260B	04/15/08 21:56	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0054	0.00069	1	8260B	04/15/08 21:56	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg		0.00078	1	8260B	04/15/08 21:56		Q31741
2-Chlorotoluene	BRL	mg/kg	0.0054		1	8260B	04/15/08 21:56		Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 State Project: U-4020/
 Client Sample ID:
 P28-1-2

 320 E. King St.
 Prism Sample ID:
 210956

 NCDOT: Boone - Parcel
 COC Group:
 G0408278

 28
 Time Collected:
 04/08/08
 16:15

 Soil
 Time Submitted:
 04/09/08
 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.054	0.0047	1	8260B	04/15/08 21:56	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0054	0.0004	1	8260B	04/15/08 21:56	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.054	0.0056	1	8260B	04/15/08 21:56	erussell	Q31741
Acetone	0.16	mg/kg	0.054	0.016	1	8260B	04/15/08 21:56	erussell	Q31741
Benzene	BRL	mg/kg	0.0032	0.00045	1	8260B	04/15/08 21:56	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0054	0.00069	1	8260B	04/15/08 21:56	erusseli	Q31741
Bromochloromethane	BRL	mg/kg	0.0054	0.00044	1	8260B	04/15/08 21:56	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0054	0.00058	1	8260B	04/15/08 21:56	erussell	Q31741
Bromoform	BRL	mg/kg	0.0054	0.00049	1	8260B	04/15/08 21:56	erussell	Q31741
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/15/08 21:56	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0054	0.00036	1	8260B	04/15/08 21:56	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0054	0.00055	1	8260B	04/15/08 21:56	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0054	0.0005	1	8260B	04/15/08 21:56	erussell	Q31741
Chloroethane	BRL	mg/kg	0.011	0.0018	1	8260B	04/15/08 21:56	erusseli	Q31741
Chloroform	BRL	mg/kg	0.0054	0.0009	1	8260B	04/15/08 21:56	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0054	0.0013	1	8260B	04/15/08 21:56	erussell	Q31741
cis-1,2-Dichloroethene	0.023	mg/kg	0.0054	0.00086	1	8260B	04/15/08 21:56	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0054	0.00071	1	8260B	04/15/08 21:56	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0054	0.0015	1	8260B	04/15/08 21:56	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0054	0.00025	1	8260B	04/15/08 21:56	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0054	0.0005	1	8260B	04/15/08 21:56	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0054	0.00031	1	8260B	04/15/08 21:56	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.011	0.00089	1	8260B	04/15/08 21:56	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/15/08 21:56	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00045	1	8260B	04/15/08 21:56	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0054	0.00089	1	8260B	04/15/08 21:56	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0054	0.00039	1	8260B	04/15/08 21:56	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Client
PrismProject ID:NCDOT: Boone - Parcel
28COC
TimeProject No.:WBS# 35015.1.1Time
TimeSample Matrix:SoilTime

Client Sample ID:	P28-1-2	
Prism Sample ID:	210956	
COC Group:	G0408278	
Time Collected:	04/08/08	16:15
Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0054	0.00036	1	8260B	04/15/08 21:56	erussell	Q31741
Naphthalene	BRL	mg/kg	0.011	0.00065	1	8260B	04/15/08 21:56	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0054	0.00023	1	8260B	04/15/08 21:56	erussell	Q31741
p-Isopropyltoiuene	BRL	mg/kg	0.0054	0.00043	1	8260B	04/15/08 21:56	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0054	0.00037	1	8260B	04/15/08 21:56	erusseil	Q31741
Styrene	BRL	mg/kg	0.0054	0.00061	1	8260B	04/15/08 21:56	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0054	0.00045	1	8260B	04/15/08 21:56	erussell	Q31741
Tetrachloroethene	13	mg/kg	2.7	0.24	500	8260B	04/16/08 14:52	erussell	Q31741
Toluene	BRL	mg/kg	0.0054	0.0004	1	8260B	04/15/08 21:56	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0054	0.00069	1	8260B	04/15/08 21:56	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0054	0.00064	1	8260B	04/15/08 21:56	erussell	Q31741
Trichloroethene	0.032	mg/kg	0.0054	0.00079	1	8260B	04/15/08 21:56	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0054	0.00096	1	8260B	04/15/08 21:56	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.027	0.0015	1	8260B	04/15/08 21:56	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0054	0.00094	1	8260B	04/15/08 21:56	erussell	Q31741

	Surrogate			% Recovery		C	Control Limits				
						Toluene-d8 Dibromofluoromethane			101 105		81 - 128
											67 - 143
						Bromofluor	obenzene		109		77 - 128
<u>Diesel Range Organics (DRO) by GC-FID</u> Diesel Range Organics (DRO)	34	mg/kg	8.5	2.1		1	8015B	04/17/08	18:20	jvogel	Q31874
Sample Preparation:	Sample Preparation:		49	.99 g	1	2 mL	3550B	04/17/08	10:30	jvoge	P21377
						Surrogate		% Re	covery	c	Control Limits
						o-Terpheny	l		98		48 - 130

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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-1-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210956	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/08/08	16:15
Morrisville, NC 27560	Project No	VVD3# 30010.1.1	Time Submitted:	04/09/08	15:50
	Sample Matrix:	Soil		0-1100100	10.00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination		•							
Weight 1	6.40	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	5.66	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) b	/ GC-FID								
Gasoline Range Organics (GRO)	BRL.	mg/kg	6.1	3.8	50	8015B	04/13/08 3:53	wbradley	Q31688

Surrogate	% Recovery	Control Limits
aaa-TFT	75	55 - 129
·····		

Sample Comment(s):

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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04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee	Project Name:	State Project: U-4020/ 320 E. King St.	Client Sample ID: Prism Sample ID:		
c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project ID: Project No.:	NCDOT: Boone - Parcel 28 WBS# 35015.1.1	COC Group: Time Collected:	G0408278 04/08/08 04/09/08	16:20 15:50
• • • • • • • • • • •	Sample Matrix:	Soil			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	83.7	%			1	SM2540 G	04/11/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.74	g			1	5035	04/11/08 0:00	Ibrown	
Weight Bisulfate 2	4.60	g			1	5035	04/11/08 0:00	Ibrown	
Weight Methanol	6.61	g			1	5035	04/11/08 0:00	Ibrown	
Volatile Organic Compounds by GC/			0 0062	0 00074	4	8260B	04/15/08 22:28	etucell	Q31741
1,1,1-Trichloroethane	BRL	mg/kg		0.00074	1 1	8260B	04/15/08 22:28		Q31741 Q31741
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	BRL BRL	mg/kg		0.00045	1	8260B	04/15/08 22:28		Q31741
1,1-Dichloroethane	BRL	mg/kg mg/kg		0.00072	1	8260B	04/15/08 22:28		Q31741
1,1-Dichloroethene	BRL	mg/kg		0.0011	1	8260B	04/15/08 22:28		Q31741
1,1-Dichloropropene	BRL	mg/kg		0.00074	1	8260B	04/15/08 22:28		Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg		0.00072	1	8260B	04/15/08 22:28		Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0063	0.00084	1	8260B	04/15/08 22:28	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0063	0.00082	1	8260B	04/15/08 22:28	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0063	0.00032	1	8260B	04/15/08 22:28	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0063	0.00078	1	8260B	04/15/08 22:28	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0063	0.0004	1	8260B	04/15/08 22:28	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0063	0.00071	1	8260B	04/15/08 22:28	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/15/08 22:28	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/15/08 22:28	erussell	Q31741
1,3-Dichlorobenzene	BRL.	mg/kg	0.0063	0.00042	1	8260B	04/15/08 22:28	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0063	0.00026	1	8260B	04/15/08 22:28	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/15/08 22:28	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0063	0.00091	1	8260B	04/15/08 22:28	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0063	0.00035	1	8260B	04/15/08 22:28	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-1-12	
Prism Sample ID:	210957	
COC Group:	G0408278	
Time Collected:	04/08/08	16:20
Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.063	0.0054	1	8260B	04/15/08 22:28	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0063	0.00047	1	8260B	04/15/08 22:28	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.063	0.0065	1	8260B	04/15/08 22:28	erussell	Q31741
Acetone	BRL	mg/kg	0.063	0.019	1	8260B	04/15/08 22:28	erussell	Q31741
Benzene	BRL	mg/kg	0.0038	0.00053	1	8260B	04/15/08 22:28	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/15/08 22:28	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0063	0.00052	1	8260B	04/15/08 22:28	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0063	0.00068	1	8260B	04/15/08 22:28	erussell	Q31741
Bromoform	BRL	mg/kg	0.0063	0.00057	1	8260B	04/15/08 22:28	erussell	Q31741
Bromomethane	BRL	mg/kg	0.013	0.0014	1	8260B	04/15/08 22:28	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0063	0.00042	1	8260B	04/15/08 22:28	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0063	0.00064	1	8260B	04/15/08 22:28	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0063	0.00058	1	8260B	04/15/08 22:28	erussell	Q31741
Chloroethane	BRL	mg/kg	0.013	0.0021	1	8260B	04/15/08 22:28	erussell	Q31741
Chloroform	BRL	mg/kg	0.0063	0.0010	1	8260B	04/15/08 22:28	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/15/08 22:28	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.0010	1	8260B	04/15/08 22:28	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00083	1	8260B	04/15/08 22:28	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0063	0.0017	1	8260B	04/15/08 22:28	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0063	0.00029	1	8260B	04/15/08 22:28	erussell	Q31741
isopropyl ether (IPE)	BRL	mg/kg	0.0063	0.00058	1	8260B	04/15/08 22:28	erussell	Q31741
lsopropylbenzene	BRL	mg/kg	0.0063	0.00037	1	8260B	04/15/08 22:28	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.013	0.0010	1	8260B	04/15/08 22:28	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.019	1	8260B	04/15/08 22:28	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00053	1	8260B	04/15/08 22:28	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0063	0.0010	1	8260B	04/15/08 22:28	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0063	0.00045	1	8260B	04/15/08 22:28	erussell	Q31741

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N. C. Department of Transportation
Attn: Martha Meyers-Lee
c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Project Name: State Project: U-4020/ Client Sample ID: P28-1-12 320 E. King St. Prism Sample ID: 210957 Project ID: NCDOT: Boone - Parcel COC Group: G0408278 28 Time Collected: 04/08/08 16:20 Project No .: WBS#35015.1.1 Time Submitted: 04/09/08 15:50 Sample Matrix: Soil

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0063	0.00042	1	8260B	04/15/08 22:28	erussell	Q31741
Naphthalene	BRL	mg/kg	0.013	0.00076	1	8260B	04/15/08 22:28	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0063	0.00026	1	8260B	04/15/08 22:28	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0063	0.0005	1	8260B	04/15/08 22:28	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0063	0.00043	1	8260B	04/15/08 22:28	erussell	Q31741
Styrene	BRL	mg/kg	0.0063	0.00071	1	8260B	04/15/08 22:28	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/15/08 22:28	erusseli	Q31741
Tetrachloroethene	0.020	mg/kg	0.0063	0.00057	1	8260B	04/15/08 22:28	erussell	Q31741
Toluene	BRL	mg/kg	0.0063	0.00047	1	8260B	04/15/08 22:28	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/15/08 22:28	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00074	1	8260B	04/15/08 22:28	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0063	0.00092	1	8260B	04/15/08 22:28	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0063	0.0011	1	8260B	04/15/08 22:28	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.032	0.0018	1	8260B	04/15/08 22:28	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0063	0.0011	1	8260B	04/15/08 22:28	erussell	Q31741

						Surrogate		% Re	covery	, c	ontrol Limits
					•	Toluene-d8			103		81 - 128
					1	Dibromofluc	promethane		105		67 - 143
						Bromofluoro	benzene		104		77 - 128
Diesel Range Organics (DRO) by GC Diesel Range Organics (DRO)	<u>-FID</u> BRL	mg/kg	8.3	2.0		1	8015B	04/17/08	18:56	jvogel	Q31874
Sample Preparation:			50.3	81 g	1	2 mL	3550B	04/17/08	10:30	jvogel	P21377
					ł	Surrogate		% Re	covery	, 0	ontrol Limits
					-	o-Terpheny			87		48 - 130

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-1-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210957	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/08/08	16:20
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination						<u> </u>			
Weight 1	4.45	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	4.06	9			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	<u>y GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.7	50	8015B	04/13/08 16:02	wbradley	Q31688

6 Recovery	Surrogate
93	aaa-TFT

Sample Comment(s):

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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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-2-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210958	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/08/08	16:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	86.1	%			1	SM2540 G	04/11/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.04	g			1	5035	04/11/08 0:00	lbrown	
Weight Bisulfate 2	5.06	g			1	5035	04/11/08 0:00	lbrown	
Weight Methanol	4.58	g			1	5035	04/11/08 0:00	lbrown	
Volatile Organic Compounds by GC/I		_			_				
1,1,1-Trichloroethane	BRL	mg/kg		0.00068	1	8260B	04/15/08 22:59		Q31741
1,1,2,2-Tetrachloroethane	BRL.	mg/kg		0.00041	1	8260B	04/15/08 22:59		Q31741
1,1,2-Trichloroethane	BRL	mg/kg		0.00061	1	8260B	04/15/08 22:59		Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0058	0.00066	1	8260B	04/15/08 22:59	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0058	0.00099	1	8260B	04/15/08 22:59	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0058	0.00068	1	8260B	04/15/08 22:59	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0058	0.00066	1	8260B	04/15/08 22:59	erusseli	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0058	0.00077	1	8260B	04/15/08 22:59	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0058	0.00075	1	8260B	04/15/08 22:59	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0058	0.00029	1	8260B	04/15/08 22:59	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0058	0.00071	1	8260B	04/15/08 22:59	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0058	0.00037	1	8260B	04/15/08 22:59	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0058	0.00065	1	8260B	04/15/08 22:59	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0058	0.0014	1	8260B	04/15/08 22:59	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0058	0.00048	1	8260B	04/15/08 22:59	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0058	0.00038	1	8260B	04/15/08 22:59	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0058	0.00024	1	8260B	04/15/08 22:59	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0058	0.00074	1	8260B	04/15/08 22:59	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0058	0.00083	1	8260B	04/15/08 22:59	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0058	0.00032	1	8260B	04/15/08 22:59	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name: State Project: U-4 320 E. King St. Project ID: NCDOT: Boone -28 Project No.: WBS# 35015.1.1 Sample Matrix: Soil

 State Project: U-4020/ 320 E. King St.
 Client Sample ID:
 P28-2-12

 NCDOT: Boone - Parcel 28
 Prism Sample ID:
 210958

 WBS# 35015.1.1
 COC Group:
 G0408278

 Soil
 Time Collected:
 04/08/08
 16:40

Parameter	Result	Units	Report Limit	MDL.	Dilution Factor	Method	Analysis An Date/Time	alyst Batch ID
2-Hexanone	BRL	mg/kg	0.058	0.0050	1	8260B	04/15/08 22:59 eruss	ell Q31741
4-Chlorotoluene	BRL	mg/kg	0.0058	0.00043	1	8260B	04/15/08 22:59 eruss	eli Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.058	0.0060	1	8260B	04/15/08 22:59 eruss	ell Q31741
Acetone	BRL	mg/kg	0.058	0.017	1	8260B	04/15/08 22:59 eruss	eli Q31741
Benzene	BRL	mg/kg	0.0035	0.00048	1	8260B	04/15/08 22:59 eruss	ell Q31741
Bromobenzene	BRL	mg/kg	0.0058	0.00074	1	8260B	04/15/08 22:59 eruss	ell Q3174 1
Bromochloromethane	BRL	mg/kg	0.0058	0.00047	1	8260B	04/15/08 22:59 eruss	ell Q3174 1
Bromodichloromethane	BRL	mg/kg	0.0058	0.00062	1	8260B	04/15/08 22:59 eruss	ell Q31741
Bromoform	BRL	mg/kg	0.0058	0.00052	1	8260B	04/15/08 22:59 eruss	ell Q31741
Bromomethane	BRL	mg/kg	0.012	0.0013	1	8260B	04/15/08 22:59 eruss	ell Q31741
Carbon tetrachloride	BRL	mg/kg	0.0058	0.00038	1	8260B	04/15/08 22:59 eruss	eli Q31741
Chlorobenzene	BRL	mg/kg	0.0058	0.00059	1	8260B	04/15/08 22:59 eruss	ell Q31741
Chlorodibromomethane	BRL	mg/kg	0.0058	0.00053	1	8260B	04/15/08 22:59 eruss	ell Q31741
Chloroethane	BRL	mg/kg	0.012	0.0019	1	8260B	04/15/08 22:59 eruss	ell Q31741
Chloroform	BRL	mg/kg	0.0058	0.00096	1	8260B	04/15/08 22:59 eruss	ell Q31741
Chloromethane	BRL	mg/kg	0.0058	0.0014	1	8260B	04/15/08 22:59 eruss	ell Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0058	0.00092	1	8260B	04/15/08 22:59 eruss	ell Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0058	0.00076	1	8260B	04/15/08 22:59 eruss	ell Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0058	0.0016	1	8260B	04/15/08 22:59 eruss	ell Q31741
Ethylbenzene	BRL	mg/kg	0.0058	0.00027	1	8260B	04/15/08 22:59 eruss	ell Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0058	0.00053	1	8260B	04/15/08 22:59 eruss	ell Q31741
Isopropylbenzene	BRL	mg/kg	0.0058	0.00033	1	8260B	04/15/08 22:59 eruss	ell Q31741
m,p-Xylenes	BRL	mg/kg	0.012	0.00094	1	8260B	04/15/08 22:59 eruss	ell Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.017	1	8260B	04/15/08 22:59 eruss	ell Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00048	1	8260B	04/15/08 22:59 eruss	ell Q31741
Methylene chloride	BRL	mg/kg	0.0058	0.00094	1	8260B	04/15/08 22:59 eruss	eli Q31741
n-Butylbenzene	BRL	mg/kg	0.0058	0.00041	1	8260B	04/15/08 22:59 eruss	ell Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-2-12	
Prism Sample ID:	210958	
COC Group:	G0408278	
Time Collected:	04/08/08	16:40
Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Repo rt Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0058	0.00038	1	8260B	04/15/08 22:59	erussell	Q31741
Naphthalene	BRL	mg/kg	0.012	0.00069	1	8260B	04/15/08 22:59	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0058	0.00024	1	8260B	04/15/08 22:59	erussell	Q31741
p-lsopropyltoluene	BRL	mg/kg	0.0058	0.00046	1	8260B	04/15/08 22:59	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0058	0.00039	1	8260B	04/15/08 22:59	erussell	Q31741
Styrene	BRL	mg/kg	0.0058	0.00065	1	8260B	04/15/08 22:59	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0058	0.00048	1	8260B	04/15/08 22:59	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0058	0.00052	1	8260B	04/15/08 22:59	erussell	Q31741
Toluene	BRL	mg/kg	0.0058	0.00043	1	8260B	04/15/08 22:59	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0058	0.00074	1	8260B	04/15/08 22:59	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0058	0.00068	1	8260B	04/15/08 22:59	erusseli	Q31741
Trichloroethene	BRL	mg/kg	0.0058	0.00084	1	8260B	04/15/08 22:59	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0058	0.0010	1	8260B	04/15/08 22:59	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.029	0.0016	1	8260B	04/15/08 22:59	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0058	0.0010	1	8260B	04/15/08 22:59	erussell	Q31741

					Surrogate		% Recovery		c	ontrol Limits	
						Toluene-d8 Dibromofluoromethane		106 106			81 - 128
											67 - 143
						Bromofluoro	benzene		106		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) Bi	RL	mg/kg	8.1	2.0		1	8015B	04/17/08	19:31	jvogel	Q31874
Sample Preparation:			49.	.93 g	1	2 mL	3550B	04/17/08	10:30	jvogel	P21377
						Surrogate		% Re	covery	C	ontrol Limits
						o-Terpheny			80		48 - 130

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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-2-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210958	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/08/08	16:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination				,					
Weight 1	5.22	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	4.88	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/13/08 16:34	wbradley	Q31688

Surrogate	% Recovery	Control Limits
aaa-TFT	89	55 - 129

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-3-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210959	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/08/08	17:00
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	88.6	%	·		1	SM2540 G	04/11/08 14:00	mbarber	,
Sample Weight Determination Weight Bisulfate 1	4.98	g			1	5035	04/11/08 0:00	lbrown	
Weight Bisulfate 2	4.48	g			1	5035	04/11/08 0:00	Ibrown	
Weight Methanol	3.73	g			1	5035	04/11/08 0:00	Ibrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>C/MS</u> BRL	malka	0.0057	0.00067	1	8260B	04/15/08 23:31	anussall	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg mg/kg		0.00041	1	8260B	04/15/08 23:31		Q31741
1,1,2-Trichloroethane	BRL	mg/kg		0.0006	1	8260B	04/15/08 23:31		Q31741
1,1-Dichloroethane	BRL	mg/kg		0.00065	1	8260B	04/15/08 23:31		Q31741
1,1-Dichloroethene	BRL	mg/kg		0.00097	1	8260B	04/15/08 23:31		Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0057	0.00067	1	8260B	04/15/08 23:31	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0057	0.00065	1	8260B	04/15/08 23:31	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0057	0.00076	1	8260B	04/15/08 23:31	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0057	0.00074	1	8260B	04/15/08 23:31	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0057	0.00028	1	8260B	04/15/08 23:31	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0057	0.0007	1	8260B	04/15/08 23:31	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0057	0.00036	1	8260B	04/15/08 23:31	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0057	0.00063	1	8260B	04/15/08 23:31	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0057	0.0014	1	8260B	04/15/08 23:31	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0057	0.00048	1	8260B	04/15/08 23:31	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0057	0.00037	1	8260B	04/15/08 23:31	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0057	0.00024	1	8260B	04/15/08 23:31	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/15/08 23:31	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0057	0.00082	1	8260B	04/15/08 23:31	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0057	0.00032	1	8260B	04/15/08 23:31	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.OProject ID:NCDOT: Boone - Parcel
28OProject No.:WBS# 35015.1.1OSample Matrix:Soil

Client Sample ID:	P28-3-12	
Prism Sample ID:	210959	
COC Group:	G0408278	
Time Collected:	04/08/08	17:00
Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.057	0.0049	1	8260B	04/15/08 23:31	erusseli	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0057	0.00042	1	8260B	04/15/08 23:31	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.057	0.0059	1	8260B	04/15/08 23:31	erussell	Q31741
Acetone	BRL	mg/kg	0.057	0.017	1	8260B	04/15/08 23:31	erussell	Q31741
Benzene	BRL	mg/kg	0.0034	0.00048	1	8260B	04/15/08 23:31	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/15/08 23:31	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0057	0.00046	1	8260B	04/15/08 23:31	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0057	0.00061	1	8260B	04/15/08 23:31	erussell	Q31741
Bromoform	BRL	mg/kg	0.0057	0.00051	1	8260B	04/15/08 23:31	erussell	Q31741
Bromomethane	BRL	mg/kg	0.011	0.0013	1	8260B	04/15/08 23:31	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0057	0.00037	1	8260B	04/15/08 23:31	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0057	0.00058	1	8260B	04/15/08 23:31	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0057	0.00052	1	8260B	04/15/08 23:31	erussell	Q31741
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/15/08 23:31	erussell	Q31741
Chloroform	BRL	mg/kg	0.0057	0.00094	1	8260B	04/15/08 23:31	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0057	0.0014	1	8260B	04/15/08 23:31	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.00091	1	8260B	04/15/08 23:31	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.00075	1	8260B	04/15/08 23:31	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0057	0.0016	1	8260B	04/15/08 23:31	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0057	0.00026	1	8260B	04/15/08 23:31	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0057	0.00052	1	8260B	04/15/08 23:31	erussell	Q31741
lsopropylbenzene	BRL	mg/kg	0.0057	0.00033	1	8260B	04/15/08 23:31	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.011	0.00093	1	8260B	04/15/08 23:31	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.017	1	8260B	04/15/08 23:31	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00048	1	8260B	04/15/08 23:31	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0057	0.00093	1	8260B	04/15/08 23:31	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0057	0.00041	1	8260B	04/15/08 23:31	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

	Client Sample ID:	P28-3-12	
_	Prism Sample ID:	210959	
I	COC Group:	G0408278	
	Time Collected:	04/08/08	17:00
	Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0057	0.00037	1	8260B	04/15/08 23:31	erussell	Q31741
Naphthalene	BRL	mg/kg	0.011	0.00068	1	8260B	04/15/08 23:31	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0057	0.00024	1	8260B	04/15/08 23:31	erussell	Q31741
p-isopropyltoluene	BRL	mg/kg	0.0057	0.00045	1	8260B	04/15/08 23:31	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0057	0.00039	1	8260B	04/15/08 23:31	erussell	Q31741
Styrene	BRL	mg/kg	0.0057	0.00063	1	8260B	04/15/08 23:31	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0057	0.00048	1	8260B	04/15/08 23:31	erusseli	Q31741
Tetrachloroethene	BRL	mg/kg	0.0057	0.00051	1	8260B	04/15/08 23:31	erussell	Q31741
Toluene	BRL	mg/kg	0.0057	0.00042	1	8260B	04/15/08 23:31	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/15/08 23:31	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.00067	1	8260B	04/15/08 23:31	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0057	0.00083	1	8260B	04/15/08 23:31	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0057	0.0010	1	8260B	04/15/08 23:31	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/15/08 23:31	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0057	0.00099	1	8260B	04/15/08 23:31	erussell	Q31741

				ŝ	Surrogate		% Re	covery	c	Control Limits
				٦	Foluene-d8			108		81 - 128
				0	Dibromofluc	romethane		106		67 - 143
				E	Bromofluoro	benzene		106		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) BRL	mg/kg	7.9	1.9	_	1	8015B	04/17/08	20:07	jvogel	Q31874
Sample Preparation:		49.	95 g	1	2 mL	3550B	04/17/08	10:30	jvogel	P21377
				S	Surrogate		% Re	covery	c	Control Limits
				c	o-Terphenyl			77		48 - 130

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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



N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-3-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210959	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/08/08	17:00
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.36	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	4.44	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	3.5	50	8015B	04/13/08 17:05	wbradley	Q31688

Surrogate	% Recovery	Control Limits
aaa-TFT	94	55 - 129

Sample Comment(s):

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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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-4-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210960	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Droject No.		Time Collected:	04/09/08	8:45
Morrisville, NC 27560	Project No.: Sample Matrix:	WBS# 35015.1.1 Soil	Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	85.9	%		,	1	SM2540 G	04/11/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.59	g			1	5035	04/11/08 0:00	lbrown	
Weight Bisulfate 2	4.90	g			1	5035	04/11/08 0:00	lbrown	
Weight Methanol	4.90	g			1	5035	04/11/08 0:00	lbrown	
Volatile Organic Compounds by G(1,1,1-Trichloroethane	<u>C/MS</u> BRL	mg/kg		0.00075		8260B	04/16/08 0:03	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00046		8260B	04/16/08 0:03	erusseli	Q31741
1,1,2-Trichloroethane	BRL	mg/kg		0.00067		8260B	04/16/08 0:03	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0063	0.00072	1	8260B	04/16/08 0:03	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0063	0.0011	1	8260B	04/16/08 0:03	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0063	0.00075	1	8260B	04/16/08 0:03	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0063	0.00072	1	8260B	04/16/08 0:03	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0063	0.00085	1	8260B	04/16/08 0:03	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0063	0.00082	1	8260B	04/16/08 0:03	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0063	0.00032	1	8260B	04/16/08 0:03	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0063	0.00079	1	8260B	04/16/08 0:03	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0063	0.00041	1	8260B	04/16/08 0:03	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0063	0.00071	1	8260B	04/16/08 0:03	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/16/08 0:03	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/16/08 0:03	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0063	0.00042	1	8260B	04/16/08 0:03	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0063	0.00027	1	8260B	04/16/08 0:03	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/16/08 0:03	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0063	0.00091	1	8260B	04/16/08 0:03	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0063	0.00036	1	8260B	04/16/08 0:03	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

 Client Sample ID:
 P28-4-12

 Prism Sample ID:
 210960

 COC Group:
 G0408278

 Time Collected:
 04/09/08
 8:45

 Time Submitted:
 04/09/08
 15:50

2-Hexanone	BRL				Factor		Date/Time		ID
		mg/kg	0.063	0.0055	1	8260B	04/16/08 0:03	arussell	Q31741
4-Chiorotoluene	BRL	mg/kg	0.0063	0.00047	1	8260B	04/16/08 0:03	erusseli	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.063	0.0066	1	8260B	04/16/08 0:03	erussell	Q31741
Acetone	BRL	mg/kg	0.063	0.019	1	8260B	04/16/08 0:03	erussell	Q31741
Benzene	BRL	mg/kg	0.0038	0.00053	1	8260B	04/16/08 0:03	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/16/08 0:03	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0063	0.00052	1	8260B	04/16/08 0:03	erussell	Q31741
Bromodichloromethane	BRL.	mg/kg	0.0063	0.00068	1	8260B	04/16/08 0:03	erusseli	Q31741
Bromoform	BRL	mg/kg	0.0063	0.00057	1	8260B	04/16/08 0:03	erussell	Q31741
Bromomethane	BRL	mg/kg	0.013	0.0014	1	8260B	04/16/08 0:03	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0063	0.00042	1	8260B	04/16/08 0:03	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0063	0.00065	1	8260B	04/16/08 0:03	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0063	0.00058	1	8260B	04/16/08 0:03	erussell	Q31741
Chloroethane	BRL	mg/kg	0.013	0.0021	1	8260B	04/16/08 0:03	erussell	Q31741
Chloroform	BRL	mg/kg	0.0063	0.0011	1	8260B	04/16/08 0:03	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/16/08 0:03	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.0010	1	8260B	04/16/08 0:03	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00084	1	8260B	04/16/08 0:03	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0063	0.0018	1	8260B	04/16/08 0:03	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0063	0.00029	1	8260B	04/16/08 0:03	erussell	Q31741
Isopropyl ether (IPE)	BRL.	mg/kg	0.0063	0.00058	1	8260B	04/16/08 0:03	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0063	0.00037	1	8260B	04/16/08 0:03	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.013	0.0010	1	8260B	04/16/08 0:03	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.019	1	8260B	04/16/08 0:03	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00053	1	8260B	04/16/08 0:03	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0063	0.0010	1	8260B	04/16/08 0:03	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0063	0.00046	1	8260B	04/16/08 0:03	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-4-12	
Prism Sample ID:	210960	
COC Group:	G0408278	
Time Collected:	04/09/08	8:45
Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0063	0.00042	1	8260B	04/16/08 0:03	erussell	Q31741
Naphthalene	BRL	mg/kg	0.013	0.00076	1	8260B	04/16/08 0:03	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0063	0.00027	1	8260B	04/16/08 0:03	erussell	Q31741
p-isopropyitoluene	BRL	mg/kg	0.0063	0.00051	1	8260B	04/16/08 0:03	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0063	0.00043	1	8260B	04/16/08 0:03	erussell	Q31741
Styrene	BRL	mg/kg	0.0063	0.00071	1	8260B	04/16/08 0:03	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/16/08 0:03	erussell	Q31741
Tetrachloroethene	0.0030 J	mg/kg	0.0063	0.00057	1	8260B	04/16/08 0:03	erusseli	Q31741
Toluene	BRL	mg/kg	0.0063	0.00047	1	8260B	04/16/08 0:03	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/16/08 0:03	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00075	1	8260B	04/16/08 0:03	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0063	0.00093	1	8260B	04/16/08 0:03	erusseli	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0063	0.0011	1	8260B	04/16/08 0:03	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.032	0.0018	1	8260B	04/16/08 0:03	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0063	0.0011	1	8260B	04/16/08 0:03	erussell	Q31741

						Surrogate		% Re	covery	С	ontrol Limits
					-	Toluene-d8			107		81 - 128
						Dibromofluc	promethane		107		67 - 143
						Bromofluoro	benzene		104	77 - 128	
<u>Diesel Range Organics (DRO) by G</u> Diesel Range Organics (DRO)	<u>C-FID</u> BRL	mg/kg	8.1	2.0		1	8015B	04/17/08	20:43	jvogel	Q31874
Sample Preparation:			50	.29 g	1	2 mL	3550B	04/17/08	10:30	jvogel	P21377
						Surrogate		% Re	covery	с	ontrol Limits
						o-Terpheny	l		83		48 - 130

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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-4-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	210960	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408278	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	8:45
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/09/08	15:50

Parameter	Result	Units	Report Limit	MÐL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.71	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	4.80	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/13/08 17:37	wbradley	Q31688

	% Recovery	Surrogate
55 - 129	85	aaa-TFT
····		

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408278
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	4/9/2008 15:50
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28		
Morrisville, NC 27560		WBS# 35015.1.1		

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	5	<2.5	mg/kg					Q31688
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organi (GRO)	ics 48.8	50 [°]		mg/kg	98	67-116			Q31688
Matrix Spike					Recovery	Recovery			QC Batch
Sample ID:	Result	Spike Amou	nt	Units	%	Ranges %			ID
210956 Gasoline Range Organi (GRO)	ics 53.3	50		mg/kg	107	57-113			Q31688
Matrix Spike Duplicate			<u></u>		Recovery	Recovery	RPD	RPD	QC Batch
Sample ID:	Result	Spike Amou	nt	Units	%	Ranges	%	Range %	ID
210956 Gasoline Range Organi (GRO)	ics 53.9	50		mg/kg	108	57-113	1	0 - 23	Q31688



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

Level II QC Report

04/22/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408278
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	4/9/2008 15:50
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WD0# 05045 4 4		
Morrisville, NC 27560		WBS# 35015.1.1		

Volatile Organic Compounds by GC/MS, method 8260B

Nethod Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
2-Chiorotoluene	ND	0.005	<0.0025	mg/kg	Q31741
2-Hexanone	ND	0.05	<0.025	mg/kg	Q31741
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31741
4-Methyi-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q31741
Acetone	ND	0.05	<0.025	mg/kg	Q31741
Benzene	ND	0.003	<0.0015	mg/kg	Q31741
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q31741
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q31741
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q31741
Bromoform	ND	0.005	<0.0025	mg/kg	Q31741
Bromomethane	ND	0.01	<0.005	mg/kg	Q31741
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q31741
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q31741
Chloroethane	ND	0.01	<0.005	mg/kg	Q31741

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



Level II QC Report

04/22/08

Method Blank				OC Batch
1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project No.:	28 WBS# 35015.1.1		
c/o URS	Project ID:	NCDOT: Boone - Parcel 28		
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	4/9/2008 15:50
N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408278

Method Blank	Result	RL	Control Limit	Units			QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg			 Q31741
Chloromethane	ND	0.005	<0.0025	mg/kg			Q31741
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q31741
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg			Q31741
Ethylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg			Q31741
Isopropylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
m,p-Xylenes	ND	0.01	<0.005	mg/kg			Q31741
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg			Q31741
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg			Q31741
Methylene chloride	ND	0.005	<0.0025	mg/kg			Q31741
n-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
n-Propylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Naphthalene	ND	0.01	<0.005	mg/kg			Q31741
o-Xylene	ND	0.005	<0.0025	mg/kg			Q31741
p-lsopropyltoluene	ND	0.005	<0.0025	mg/kg			Q31741
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Styrene	ND	0.005	<0.0025	mg/kg			Q31741
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Tetrachloroethene	ND	0.005	<0.0025	mg/kg			Q31741
Toluene	ND	0.005	<0.0025	mg/kg			Q31741
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q31741
Trichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg			Q31741
Vinyl acetate	ND	0.025	<0.0125	mg/kg			Q31741
Vinyl chloride	ND	0.005	<0.0025	mg/kg			Q31741
Laboratory Control Sample	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %	 QC Batch ID
1,1-Dichloroethene	0.04182	0.05		mg/kg	84	57-122	 Q31741
Benzene	0.04274	0.05		mg/kg	85	62-119	Q31741
Chlorobenzene	0.04245	0.05		mg/kg	85	61-124	Q31741
Toluene	0.04525	0.05		mg/kg	91	57-122	Q31741
Trichloroethene	0.04463	0.05		mg/kg	89	59-129	Q31741

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Level II QC Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Name:32Project ID:NoProject No.:28		State Proje 320 E. King NCDOT: B 28 NBS# 350	g St. oone - F		COC Group Date/Time				
Matrix Spike					Recovery	Recover Ranges			QC Batch	
Sample ID:	Result	Spike Amour	ł	Units	%	%	- · · · ·		ID	
210956 1,1-Dichloroethene	0.03473	0.05		mg/kg	69	44-14	10		Q31741	
Benzene	0.03513	0.05		mg/kg	70	46-13	36		Q31741	
Chlorobenzene	0.03172	0.05		mg/kg	63	47-13	35		Q31741	
Toluene	0.03487	0.05		mg/kg	70	47-13	36		Q31741	
Trichloroethene	0.04799	0.05		mg/kg	43	# 45-14	1 1		Q31741	
Matrix Spike Duplicate Sample ID:	Result	Spike Amour	nt .	Units	Recovery %	Recover Ranges %		RPD Range %	QC Batch ID	
210956 1,1-Dichloroethene	0.03604	0.05		mg/kg	72	44-14	10 4	0 - 23	Q31741	
Benzene	0.0341	0.05		mg/kg	68	46-13	36 3	0 - 22	Q31741	
Chlorobenzene	0.02652	0.05		mg/kg	53	47-13	35 18	0 - 22	Q31741	
Toluene	0.03171	0.05		mg/kg	63	47-13	36 9	0 - 22	Q31741	
Trichloroethene	0.05758	0.05		mg/kg	62	45-14	41 18	0 - 23	Q31741	
Diesel Range Organics (DRO) by GC-	FID, meth	od 8015B								
Method Blank	Result	RL	Control Li	mit Units					QC Batch ID	
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31874	
Laboratory Control Sample	Result	Spike Amour	ıt	Units	Recovery %	Recover Ranges %			QC Batch ID	
Diesel Range Organics (DRO)	33.5	40		mg/kg	84	53-1	18		Q31874	
Matrix Spike Sample ID:	Result	Spike Amour	ıt	Units	Recovery %	Recover Ranges %			QC Batch ID	
210956 Diesel Range Organics (DRO)	51.4	40		mg/kg	59	52-1 1	19		Q31874	
Matrix Spike Duplicate Sample ID:	Result	Spike Amour	ıt	Units	Recovery %	Recover Ranges %		RPD Range %	QC Batch ID	
210956 Diesel Range Organics (DRO)	47.3	40		mg/kg	49	# 52-1 ⁻	19 8	0 - 25	Q31874	

#-See Case Narrative

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		 <i>]</i>				PRISM	LAB ID NO.	GI0956	A10957	A10453	210957	G12940		Y - 3 COPIES	PRISM USE ONLY	ll Time:	Site Departure Time:	Fee:			SEE REVERSE FOR TERMS & CONDITIONS	ORIGINAL
LAB USE ONLY	upon arrival? 5.1	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 X Sample Iced Upon Collection: YES NO		REMARKS							PRESS DOWN FIRMLY - 3 COPIES	PRISN	Additional Comments: Site Arrival Time:	Site Depa	Field Tech Fee	Mileage:		SEE TERMS	0
SD 22	Samples INTACT upon arrival? Received ON WET ICE? Temp	a		षु		NALYSES	\$ 100 JO	1 3	1 3	- 2	- 3	M 1		IRS Corp.	es must be	V/Hours	0/1 / 0/		0 ⁶ 21 1550	604337 <i>3</i>	TILL OTHER: DISC DINC DISC	I Cero Head Space)
CUSTODY RECORD	R BILLING:	Project Name: 10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	U-4020	D./ Billing Reference (کارکار) کر ایندان کر کاریک کر کاریک کر کاریک کر کار کر	"Working Days"		ET : CO RE	- 6	2	-	10	2 1		Affiliation	1 abo	070	Date	Date	<u> </u>	5	CERCLA LANDFILL	le Organics Anal
DF CUSTO	QUOTE # TO ENSURE PROPER BILLING:	v project specific repo	tate Projet.	Pyrchase Order No./Billing Reference Wiss	D 6-9 Days X Standard 10 days D pre-Apt 15:00 will be processed next business day. ad on business days, excluding weekends a r TERMS & CONDITIONS REGARDING SERVICI ISM LABORATORIES, INC. TO CLIENT)	TAINER		2-Yon - withory					,	ichael Marse	th the analyses as requires analyses have have have have have have have have	7	in the	Bur D		NOTE: ALL SAMPLE COOLERS SHOULD BE LAPED SHOUT WIN CUSTOUT SEAS FOR THANSPORTATION TO THE CHOURN TO		lon-Lined Cap VOA = V
CHAIN O		24-0543 Project Name: <u>1V</u> Short Hold Analysis: *Please ATTACH any provisions and/or Q0	Address:	<u>אראידי לאין איז אין א</u> איז איז איז איז איז איז איז איז איז איז	"Working Days" Samples received after 1 Turnaround time is based (SEE REVERSE FOR RENDERED BY PRIS	SAMPLE CONT	SEE BELOW NO.	6 7	G 7	G 7	٦	G 7		Somolod By (Brint Nome)	Dy (Finit Manue)	ceived By: (Signary re)	Received By: (Signature)	r Society of Ear Prism 1 Annatorias Bu		N GUSTOUT SEALS FOR THE L		D = Plastic; TL = Tefl
	S	C 28224-0543 201 55-1-8-6 5, 4-406	<u>dri-Iurc</u>	-181 1120	gst.	MATRIX	ξø	Soil			\rightarrow	Sail		Source -	there will he	Re					DRINKING WATER: DNC DSC	D ar G = Glass
SM	nes, avc. nmental Solutior	Charlotte, NC 2822	7560 1910		Zum	TIME	MILITARY	1615	مد مار	1640	1708	0845		1 des	ody is your au			4-0% 1°		COOLERS SHOULD BE I ACCEPTED AND VERIFIE APrism Field Service		ber C = Clea
PRISM		P.O. Box 240543 • Fax: 704/525-0409 e: 1) [25 0409 ame: Mov. [44]		I Address Med	1 Address: 33			4-8-08			\rightarrow	4-9-08			is Chain of Custo		//	per 4		NOTE: ALL SAMPLE COOLEF SAMPLES ARE NOT ACCEPT D Hand-delivered	1 m ~ ~	_
	Full Sarvice A	449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0409 Client Company Name: しとくしいのいかい やくやく こうしん	MOCC 5 5 11 C		EDD Type: PDF		CLIENI SAMPLE DESCRIPTION	6-1-8CD	61-1-869	61-6-869		4			Upon relinquishing, thi	Relinquished By: (Signature)	Elinquisher (Signeyre)	M Cmg		Method of Shipment: NOTE: SAMPL	: US	



Case Narrative

Date:04/22/08Company:N. C. Department of TransportationContact:Martha Meyers-LeeAddress:c/o URS1600 Perimeter Park Dr. Suite 400Morrisville, NC 27560

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s): NCDOT: Boone - Parcel 28 G0408348 04/09/08 04/11/08

Client Project Name Or No: State Project: U-4020/ 320 E. King

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 33 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

Analysis Note for Q31741 MS Trichloroethene: Recovery outside of the control limits. Matrix interference is suspected.

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Signature:

Review Date:

r: Robbi A. Jones 04/22/08

Signature: Approval Date:

Project Manager:

Robbi A. Jones

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.

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Laboratory Report

04/22/08

N. C. Department of Transportation		State Project: U-4020/	Client Sample ID:	P28-5-8	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211179	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	9:05
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30
	oumpro maawa	0011			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	91.4	%			1	SM2540 G	04/15/08 11:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.42	g			1	5035	04/14/08 0:00	lbrown	
Weight Bisulfate 2	4.51	g			1	5035	04/14/08 0:00	lbrown	
Weight Methanol	4.59	g			1	5035	04/14/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>C/MS</u> BRL	mg/kg	0.0062	0.00073	1	8260B	04/16/08 2:08	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0062	0.00045	1	8260B	04/16/08 2:08	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0062	0.00066	1	8260B	04/16/08 2:08	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0062	0.00071	1	8260B	04/16/08 2:08	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 2:08	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0062	0.00073	1	8260B	04/16/08 2:08	erusseli	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0062	0.00071	1	8260B	04/16/08 2:08	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0062	0.00083	1	8260B	04/16/08 2:08	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0062	0.0008	1	8260B	04/16/08 2:08	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0062	0.00031	1	8260B	04/16/08 2:08	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0062	0.00077	1	8260B	04/16/08 2:08	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0062	0.0004	1	8260B	04/16/08 2:08	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0062	0.00069	1	8260B	04/16/08 2:08	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0062	0.0015	1	8260B	04/16/08 2:08	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	04/16/08 2:08	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 2:08	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0062	0.00026	1	8260B	04/16/08 2:08	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0062	0.00079	1	8260B	04/16/08 2:08	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0062	0.00089	1	8260B	04/16/08 2:08	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0062	0.00035	1	8260B	04/16/08 2:08	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-5-8	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211179	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	3
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/09/08	9:05
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.062	0.0053	1	8260B	04/16/08 2:08	erusseli	Q31741
4-Chiorotoluene	BRL	mg/kg	0.0062	0.00046	1	8260B	04/16/08 2:08	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.062	0.0064	1	8260B	04/16/08 2:08	erussell	Q31741
Acetone	BRL	mg/kg	0.062	0.018	1	8260B	04/16/08 2:08	erusselt	Q31741
Benzene	BRL.	mg/kg	0.0037	0.00052	1	8260B	04/16/08 2:08	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0062	0.00079	1	8260B	04/16/08 2:08	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0062	0.00051	1	8260B	04/16/08 2:08	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0062	0.00067	1	8260B	04/16/08 2:08	erussell	Q31741
Bromoform	BRL	mg/kg	0.0062	0.00056	1	8260B	04/16/08 2:08	erussell	Q31741
Bromomethane	BRL	mg/kg	0.012	0.0014	1	8260B	04/16/08 2:08	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 2:08	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0062	0.00063	1	8260B	04/16/08 2:08	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0062	0.00057	1	8260B	04/16/08 2:08	erusseli	Q31741
Chloroethane	BRL	mg/kg	0.012	0.0021	1	8260B	04/16/08 2:08	erussell	Q31741
Chloroform	BRL	mg/kg	0.0062	0.0010	1	8260B	04/16/08 2:08	erusseil	Q31741
Chloromethane	BRL	mg/kg	0.0062	0.0015	1	8260B	04/16/08 2:08	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0062	0.00099	1	8260B	04/16/08 2:08	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00082	1	8260B	04/16/08 2:08	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0062	0.0017	1	8260B	04/16/08 2:08	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0062	0.00028	1	8260B	04/16/08 2:08	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0062	0.00057	1	8260B	04/16/08 2:08	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0062	0.00036	1	8260B	04/16/08 2:08	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.012	0.0010	1	8260B	04/16/08 2:08	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.018	1	8260B	04/16/08 2:08	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00052	1	8260B	04/16/08 2:08	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0062	0.0010	1	8260B	04/16/08 2:08	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0062	0.00045	1	8260B	04/16/08 2:08	erussell	Q31741

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9:05

8:30

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Client Sample ID: P28-5-8 Project Name: State Project: U-4020/ 320 E. King St. Prism Sample ID: 211179 NCDOT: Boone - Parcel Project ID: COC Group: G0408348 28 Time Collected: 04/09/08 Project No.: WBS# 35015.1.1 Time Submitted: 04/11/08 Sample Matrix: Soil

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 2:08	erussell	Q31741
Naphthalene	BRL	mg/kg	0.012	0.00074	1	8260B	04/16/08 2:08	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0062	0.00026	1	8260B	04/16/08 2:08	erussell	Q31741
p-Isopropyitoluene	BRL	mg/kg	0.0062	0.0005	1	8260B	04/16/08 2:08	erusseli	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0062	0.00042	1	8260B	04/16/08 2:08	erussell	Q31741
Styrene	BRL	mg/kg	0.0062	0.00069	1	8260B	04/16/08 2:08	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	04/16/08 2:08	erussell	Q31741
Tetrachloroethene	0.013	mg/kg	0.0062	0.00056	1	8260B	04/16/08 2:08	erussell	Q31741
Toluene	BRL	mg/kg	0.0062	0.00046	1	8260B	04/16/08 2:08	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0062	0.00079	1	8260B	04/16/08 2:08	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00073	1	8260B	04/16/08 2:08	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0062	0.0009	1	8260B	04/16/08 2:08	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 2:08	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.031	0.0017	1	8260B	04/16/08 2:08	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 2:08	erussell	Q31741

						Surrogate		% Red	covery	Con	trol Limits
						Toluene-d8			105		81 - 128
						Dibromofluc	promethane		106		67 - 143
						Bromofluoro	benzene		105		77 - 128
Diesel Range Organics (DRO) by GO Diesel Range Organics (DRO)	:-FID BRL	mg/kg	7.6	1.2		1	8015B	04/21/08	15:05	vogel	Q31897
Sample Preparation:			25	.03 g	1	1 mL	3545	04/18/08	15:30	wconder	P21373
						Surrogate		% Re	covery	Con	trol Limits
						o-Terpheny	I		66		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-5-8	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211179	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	9:05
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination				·	,				
Weight 1	4.44	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	4.74	ġ			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	/ GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.5	3.4	50	8015B	04/15/08 15:37	wbradley	Q31760

covery Cont	% Reco	Surroga
66 5	(aaa-TFT

Sample Comment(s):

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



04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-6-8	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211180	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	9:30
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	70.6	%			1	SM2540 G	04/15/08 11:	5 mbarber	
Diesel Range Organics (DRO) by G	iC-FID								
Diesel Range Organics (DRO)	BRL	mg/kg	9.9	1.6	1	8015B	04/21/08 15:4	11 jvogel	Q31897
Sample Preparation:			25	.04 g	/ 1 mL	3545	04/18/08 15:	30 wconder	P21373
					Surrogate	•	% Recove	ry Cor	ntrol Limits
					o-Terphen	yl	66		49 - 124
Sample Weight Determination									
Weight 1	4.71	g			1	GRO	04/14/08 0:00) Ibrown	
Weight 2	4.83	g			1	GRO	04/14/08 0:00) Ibrown	
Gasoline Range Organics (GRO) b	<u>y GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	4.4	50	8015B	04/15/08 18:	1 wbradley	Q31760
					Surrogate		% Recove	6	ntrol Limits

aaa-TFT

57

Sample Comment(s).	Sample	Comment(s)	:
--------------------	--------	----------	----	---

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

04/22/08

N. C. Department of Transportation	Project Name:	-	Client Sample ID:	P28-7-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211181	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	9:45
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	79.6	%			1	SM2540 G	04/15/08 11:15	mbarber	944 (16, 192 (16, 192)
Sample Weight Determination Weight Bisulfate 1	4.61	g			1	5035	04/14/08 0:00	lbrown	
Weight Bisulfate 2	4.44	g			1	5035	04/14/08 0:00	lbrown	
Weight Methanol	4.76	g			1	5035	04/14/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>C/MS</u> BRL	mg/kg	0.0068	0.0008	1	8260B	04/16/08 2:40	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0068	0.00049	1	8260B	04/16/08 2:40	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0068	0.00072	1	8260B	04/16/08 2:40	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0068	0.00078	1	8260B	04/16/08 2:40	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0068	0.0012	1	8260B	04/16/08 2:40	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0068	0.0008	1	8260B	04/16/08 2:40	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0068	0.00078	1	8260B	04/16/08 2:40	erusseli	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0068	0.00091	1	8260B	04/16/08 2:40	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0068	0.00089	1	8260B	04/16/08 2:40	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0068	0.00034	1	8260B	04/16/08 2:40	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0068	0.00084	1	8260B	04/16/08 2:40	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0068	0.00044	1	8260B	04/16/08 2:40	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0068	0.00076	1	8260B	04/16/08 2:40	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0068	0.0016	1	8260B	04/16/08 2:40	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0068	0.00057	1	8260B	04/16/08 2:40	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0068	0.00045	1	8260B	04/16/08 2:40	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0068	0.00029	1	8260B	04/16/08 2:40	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	04/16/08 2:40	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0068	0.00098	1	8260B	04/16/08 2:40	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0 0068	0.00038	1	8260B	04/16/08 2:40	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-7-12

 Prism Sample ID:
 211181

 COC Group:
 G0408348

 Time Collected:
 04/09/08
 9:45

 Time Submitted:
 04/11/08
 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.068	0.0059	1	8260B	04/16/08 2:40	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0068	0.0005	1	8260B	04/16/08 2:40	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.068	0.0071	1	8260B	04/16/08 2:40	erussell	Q31741
Acetone	BRL	mg/kg	0.068	0.020	1	8260B	04/16/08 2:40	erussell	Q31741
Benzene	BRL	mg/kg	0.0041	0.00057	1	8260B	04/16/08 2:40	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	04/16/08 2:40	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0068	0.00056	1	8260B	04/16/08 2:40	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0068	0.00074	1	8260B	04/16/08 2:40	erussell	Q31741
Bromoform	BRL	mg/kg	0.0068	0.00061	1	8260B	04/16/08 2:40	erussell	Q31741
Bromomethane	BRL	mg/kg	0.014	0.0015	1	8260B	04/16/08 2:40	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0068	0.00045	1	8260B	04/16/08 2:40	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0068	0.00069	1	8260B	04/16/08 2:40	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0068	0.00063	1	8260B	04/16/08 2:40	erussell	Q31741
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	04/16/08 2:40	erussell	Q31741
Chloroform	BRL	mg/kg	0.0068	0.0011	1	8260B	04/16/08 2:40	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0068	0.0016	1	8260B	04/16/08 2:40	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0068	0.0011	1	8260B	04/16/08 2:40	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.0009	1	8260B	04/16/08 2:40	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0068	0.001 9	1	8260B	04/16/08 2:40	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0068	0.00031	1	8260B	04/16/08 2:40	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0068	0.00063	1	8260B	04/16/08 2:40	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0068	0.0004	1	8260B	04/16/08 2:40	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	04/16/08 2:40	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.020	1	8260B	04/16/08 2:40	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00057	1	8260B	04/16/08 2:40	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0068	0.0011	1	8260B	04/16/08 2:40	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0068	0.00049	1	8260B	04/16/08 2:40	erussell	Q31741

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04/22/08

9:45

8:30

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-7-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211181	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408348	;
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	9
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0068	0.00045	1	8260B	04/16/08 2:40	erusseli	Q31741
Naphthalene	BRL	mg/kg	0.014	0.00082	1	8260B	04/16/08 2:40	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0068	0.00029	1	8260B	04/16/08 2:40	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0068	0.00055	1	8260B	04/16/08 2:40	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0068	0.00046	1	8260B	04/16/08 2:40	erussell	Q31741
Styrene	BRL	mg/kg	0.0068	0.00076	1	8260B	04/16/08 2:40	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0068	0.00057	1	8260B	04/16/08 2:40	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0068	0.00061	1	8260B	04/16/08 2:40	erussell	Q31741
Toluene	BRL	mg/kg	0.0068	0.0005	1	8260B	04/16/08 2:40	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0068	0.00087	1	8260B	04/16/08 2:40	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.0008	1	8260B	04/16/08 2:40	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0068	0.00099	1	8260B	04/16/08 2:40	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0068	0.0012	1	8260B	04/16/08 2:40	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.034	0.0019	1	8260B	04/16/08 2:40	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0068	0.0012	1	8260B	04/16/08 2:40	erussell	Q31741

					Su	rrogate		% Re	covery	Cont	rol Limits
					Tol	uene-d8			106	ε	31 - 128
					Dib	romofluc	promethane		105	(37 - 143
					Вго	mofluor	obenzene		104	ī	77 - 128
Diesel Range Organics (DRO) by GC Diesel Range Organics (DRO)	- <u>FID</u> BRL	mg/kg	8.7	1.4		1	8015B	04/21/08	16:17 i	voqel	Q31897
Sample Preparation:	BRE	mana		5.2 g		1 mL	3545	04/18/08	-	wconder	P21373
					Sur	rrogate		% Re	covery	Cont	rol Limits
					o-T	erpheny	1		49	4	49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-7-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211181	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	∠o WBS# 35015.1.1	Time Collected:	04/09/08	9:45
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination						L			u
Weight 1	4.30	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	4.25	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	3.9	50	8015B	04/15/08 18:52	wbradley	Q31760

Surrogate	% Recovery	Control Limits
aaa-TFT	83	55 - 129

Sample Comment(s):

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



04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-8-8	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211182	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	10:00
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	91.4	%			1	SM2540 G	04/15/08 11:1	5 mbarber	
	0117				·			-	
Diesel Range Organics (DRO) by G	C-FID								
Diesel Range Organics (DRO)	BRL	mg/kg	7.6	1.2	1	8015B	04/21/08 16:5	3 jvogel	Q31897
Sample Preparation:			25	.23 g	/ 1 mL	3545	04/18/08 15:3	0 wconder	P21373
					Surrogate)	% Recove	ry Cor	ntrol Limits
					o-Terphen	ył	59		49 - 124
Sample Weight Determination									
Weight 1	4.81	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.66	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) b	y GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.5	3.4	50	8015B	04/15/08 19:2	3 wbradley	Q31760
					Surrogate		% Recove	ny Cor	ntrol Limits

Surrogate	% Recovery	Control Limits
aaa-TFT	59	55 - 129
<u></u>		

Sample Comment(s):

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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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-9-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211183	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	10:30
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysi Date/Tir		Analyst	Batch ID
Percent Solids Determination										
Percent Solids	78.1	%			1	SM2540 G	04/15/08	11:15	mbarber	
Diesel Range Organics (DRO) by G	C-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.9	1.4	1	8015B	04/21/08	17:29	jvogel	Q31897
Sample Preparation:			25	.28 g	/ 1 mL	3545	04/18/08	15:30	wconder	P21373
					Surrogate	•	% Red	covery	Con	trol Limits
					o-Terphen	ıyl		62		49 - 124
Sample Weight Determination										
Weight 1	4.53	g			1	GRO	04/14/08	0:00	lbrown	
Weight 2	4.37	g			1	GRO	04/14/08	0:00	lbrown	
Gasoline Range Organics (GRO) b	y GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	04/15/08	19:55	wbradley	Q31760
					Surrogate		% Rec		0	trol Limits

ogate % Rec	-
TFT	98 55 - 129

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-10-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211184	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/09/08	10:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	88.3	%			1	SM2540 G	04/15/08 11:15	mbarber	<u> </u>
Sample Weight Determination Weight Bisulfate 1	4.05	g			1	5035	04/14/08 0:00	lbrown	
Weight Bisulfate 2	4.94	g			1	5035	04/14/08 0:00	lbrown	
Weight Methanol	4.57	g			1	5035	04/14/08 0:00	lbrown	
Volatile Organic Compounds by GC 1,1,1-Trichloroethane	:/MS BRL	mg/kg	0.0070	0.00082	1	8260B	04/16/08 3:11	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0070	0.0005	1	8260B	04/16/08 3:11	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0070	0.00074	1	8260B	04/16/08 3:11	erusseli	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0070	0.0008	1	8260B	04/16/08 3:11	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0070	0.0012	1	8260B	04/16/08 3:11	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0070	0.00082	1	8260B	04/16/08 3:11	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0070	0.0008	1	8260B	04/16/08 3:11	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0070	0.00094	1	8260B	04/16/08 3:11	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0070	0.00091	1	8260B	04/16/08 3:11	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0070	0.00035	1	8260B	04/16/08 3:11	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0070	0.00087	1	8260B	04/16/08 3:11	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0070	0.00045	1	8260B	04/16/08 3:11	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0070	0.00078	1	8260B	04/16/08 3:11	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0070	0.0017	1	8260B	04/16/08 3:11	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0070	0.00059	1	8260B	04/16/08 3:11	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0070	0.00046	1	8260B	04/16/08 3:11	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0070	0.00029	1	8260B	04/16/08 3:11	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0070	0.00089	1	8260B	04/16/08 3:11	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0070	0.0010	1	8260B	04/16/08 3:11	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0070	0.00039	1	8260B	04/16/08 3:11	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-10-12	
Prism Sample ID:	211184	
COC Group:	G0408348	
Time Collected:	04/09/08	10:50
Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL.	mg/kg	0.070	0.0060	1	8260B	04/16/08 3:11	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0070	0.00052	1	8260B	04/16/08 3:11	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.070	0.0073	1	8260B	04/16/08 3:11	erussell	Q31741
Acetone	BRL	mg/kg	0.070	0.021	1	8260B	04/16/08 3:11	erusseli	Q31741
Benzene	BRL	mg/kg	0.0042	0.00059	1	8260B	04/16/08 3:11	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0070	0.00089	1	8260B	04/16/08 3:11	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0070	0.00057	1	8260B	04/16/08 3:11	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0070	0.00076	1	8260B	04/16/08 3:11	erussell	Q31741
Bromoform	BRL	mg/kg	0.0070	0.00063	1	8260B	04/16/08 3:11	erussell	Q31741
Bromomethane	BRL	mg/kg	0.014	0.0016	1	8260B	04/16/08 3:11	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0070	0.00046	1	8260B	04/16/08 3:11	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0070	0.00071	1	8260B	04/16/08 3:11	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0070	0.00064	1	8260B	04/16/08 3:11	erussell	Q31741
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	04/16/08 3:11	erussell	Q31741
Chloroform	BRL	mg/kg	0.0070	0.0012	1	8260B	04/16/08 3:11	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0070	0.0017	1	8260B	04/16/08 3:11	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0070	0.0011	1	8260B	04/16/08 3:11	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0070	0.00092	1	8260B	04/16/08 3:11	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0070	0.0019	1	8260B	04/16/08 3:11	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0070	0.00032	1	8260B	04/16/08 3:11	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0070	0.00064	1	8260B	04/16/08 3:11	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0070	0.00041	1	8260B	04/16/08 3:11	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	04/16/08 3:11	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.021	1	8260B	04/16/08 3:11	erusseli	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00059	1	8260B	04/16/08 3:11	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0070	0.0011	1	8260B	04/16/08 3:11	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0070	0.0005	1	8260B	04/16/08 3:11	erussell	Q31741

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-10-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211184	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	10:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0070	0.00046	1	8260B	04/16/08 3:11	erussell	Q31741
Naphthalene	BRL	mg/kg	0.014	0.00084	1	8260B	04/16/08 3:11	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0070	0.00029	1	8260B	04/16/08 3:11	erussell	Q31741
p-Isopropyitoluene	BRL	mg/kg	0.0070	0.00056	1	8260B	04/16/08 3:11	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0070	0.00048	1	8260B	04/16/08 3:11	erussell	Q31741
Styrene	BRL	mg/kg	0.0070	0.00078	1	8260B	04/16/08 3:11	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0070	0.00059	1	8260B	04/16/08 3:11	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0070	0.00063	1	8260B	04/16/08 3:11	erussell	Q31741
Toluene	BRL	mg/kg	0.0070	0.00052	1	8260B	04/16/08 3:11	erusseli	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0070	0.00089	1	8260B	04/16/08 3:11	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0070	0.00082	1	8260B	04/16/08 3:11	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0070	0.0010	1	8260B	04/16/08 3:11	erusseli	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0070	0.0012	1	8260B	04/16/08 3:11	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.035	0.0020	1	8260B	04/16/08 3:11	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0070	0.0012	1	8260B	04/16/08 3:11	erussell	Q31741

					S	urrogate		% Red	covery	Cor	trol Limits
					T	'oluene-d8		110			81 - 128
					Ľ	ibromofluc	promethane		106		67 - 143
					E	romofluoro	obenzene		107		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) BRL mg		mg/kg	mg/kg 7.8	1.3	1		8015B	04/21/08 18:05 jvo		jvogel	Q31897
Sample Preparation:			25.	53 g	1	1 mL	3545	04/18/08	15:30	wconder	P21373
					S	Surrogate		% Red	covery	Cor	trol Limits
					C	-Terpheny	I		59		49 - 124

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



N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-10-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211184	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	10:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Facto r	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.53	ġ			1	GRO	04/17/08 0:00	athao	
Weight 2	4.35	g			1	GRO	04/17/08 0:00	athao	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.5	50	8015B	04/15/08 20:27	wbradley	Q31760

Surrogate	% Recovery	Control Limits
aaa-TFT	97	55 - 129

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-11-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211185	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	11:15
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.3	%			1	SM2540 G	04/15/08 11:1	5 mbarber	
Diesel Range Organics (DRO) by G	<u>iC-FID</u>								
Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	04/21/08 18:4	0 jvogel	Q31897
Sample Preparation:			25	.28 g	/ 1 mL	3545	04/18/08 15:3	0 wconder	P21373
					Surrogate	•	% Recove	ry Con	trol Limits
					o-Terphen	yl	55		49 - 124
Sample Weight Determination									
Weight 1	5.17	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	5.08	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) b	y GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	3.9	50	8015B	04/15/08 20:2	8 wbradley	Q31760
					Surrogate		% Recove		trol Limits

y Control Limits	% Recovery	Surrogate
55 - 129	97	aaa-TFT

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-12-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211186	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/09/08	11:25
Morrisville, NC 27560	•		Time Submitted:	04/11/08	8:30
	Sample Matrix:	Soli			

Percent Solids Determination Percent Solids Gample Weight Determination	72.6 4.98 4.86	%			1	0102-00-0			
ample Weight Determination		~				SM2540 G	04/15/08 11:15	mbarber	
Veight Bisulfate 1	4.86	g			1	5035	04/14/08 0:00	lbrown	
Veight Bisulfate 2		g			1	5035	04/14/08 0:00	lbrown	
Veight Methanol	4.42	g			1	5035	04/14/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC</u> ,1,1-Trichloroethane	: <u>/MS</u> BRL	mg/kg	0.0069	0.00082	1	8260B	04/16/08 3:42	erussell	Q31741
,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0069	0.0005	1	8260B	04/16/08 3:42	erussell	Q31741
,1,2-Trichloroethane	BRL	mg/kg	0.0069	0.00073	1	8260B	04/16/08 3:42	erussell	Q31741
,1-Dichloroethane	BRL	mg/kg	0.0069	0.00079	1	8260B	04/16/08 3:42	erusseil	Q31741
,1-Dichloroethene	BRL	mg/kg	0.0069	0.0012	1	8260B	04/16/08 3:42	erussell	Q31741
,1-Dichloropropene	BRL	mg/kg	0.0069	0.00082	1	8260B	04/16/08 3:42	erusseil	Q31741
,2,3-Trichlorobenzene	BRL	mg/kg	0.0069	0.00079	1	8260B	04/16/08 3:42	erussell	Q31741
,2,3-Trichloropropane	BRL	mg/kg	0.0069	0.00093	1	8260B	04/16/08 3:42	erussell	Q31741
,2,4-Trichlorobenzene	BRL	mg/kg	0.0069	0.0009	1	8260B	04/16/08 3:42	erussell	Q31741
,2,4-Trimethylbenzene	BRL	mg/kg	0.0069	0.00035	1	8260B	04/16/08 3:42	erussell	Q31741
,2-Dibromoethane (EDB)	BRL	mg/kg	0.0069	0.00086	1	8260B	04/16/08 3:42	erussell	Q31741
,2-Dichlorobenzene	BRL	mg/kg	0.0069	0.00044	1	8260B	04/16/08 3:42	erussell	Q31741
,2-Dichloroethane	BRI.	mg/kg	0.0069	0.00077	1	8260B	04/16/08 3:42	erussell	Q31741
,2-Dichloropropane	BRL	mg/kg	0.0069	0.0017	1	8260B	04/16/08 3:42	erussell	Q31741
,3,5-Trimethylbenzene	BRL	mg/kg	0.0069	0.00058	1	8260B	04/16/08 3:42	erussell	Q31741
,3-Dichlorobenzene	BRL	mg/kg	0.0069	0.00046	1	8260B	04/16/08 3:42	erussell	Q31741
,3-Dichloropropane	BRL	mg/kg	0.0069	0.00029	1	8260B	04/16/08 3:42	erussell	Q31741
,4-Dichlorobenzene	BRL	mg/kg	0.0069	0.00089	1	8260B	04/16/08 3:42	erussell	Q31741
,2-Dichloropropane	BRL	mg/kg	0.0069	0.0010	1	8260B	04/16/08 3:42	erussell	Q31741
-Chlorotoluene	BRL	mg/kg	0.0069	0.00039	1	8260B	04/16/08 3:42	erussell	Q31741

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N. C. Department of Transportation
Attn: Martha Meyers-Lee
c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

 Project Name:
 State Project: U-4i

 320 E. King St.

 Project ID:
 NCDOT: Boone - F

 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

4020/	Client Sample ID:	P28-12-12	
_	Prism Sample ID:	211186	
Parcel	COC Group:	G0408348	
	Time Collected:	04/09/08	11:25
	Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.069	0.0060	1	8260B	04/16/08 3:42	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0069	0.00051	1	8260B	04/16/08 3:42	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.069	0.0072	1	8260B	04/16/08 3:42	erussell	Q31741
Acetone	BRL	mg/kg	0.069	0.021	1	8260B	04/16/08 3:42	erussell	Q31741
Benzene	BRL	mg/kg	0.0041	0.00058	1	8260B	04/16/08 3:42	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0069	0.00089	1	8260B	04/16/08 3:42	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0069	0.00057	1	8260B	04/16/08 3:42	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0069	0.00075	1	8260B	04/16/08 3:42	erussell	Q31741
Bromoform	BRL	mg/kg	0.0069	0.00062	1	8260B	04/16/08 3:42	erussell	Q31741
Bromomethane	BRL	mg/kg	0.014	0.0015	1	8260B	04/16/08 3:42	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0069	0.00046	1	8260B	04/16/08 3:42	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0069	0.00071	1	8260B	04/16/08 3:42	erusseli	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0069	0.00064	1	8260B	04/16/08 3:42	erussell	Q31741
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	04/16/08 3:42	erussell	Q31741
Chloroform	BRL	mg/kg	0.0069	0.0011	1	8260B	04/16/08 3:42	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0069	0.0017	1	8260B	04/16/08 3:42	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0069	0.0011	1	8260B	04/16/08 3:42	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0069	0.00091	1	8260B	04/16/08 3:42	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0069	0.0019	1	8260B	04/16/08 3:42	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0069	0.00032	1	8260B	04/16/08 3:42	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0069	0.00064	1	8260B	04/16/08 3:42	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0069	0.0004	1	8260B	04/16/08 3:42	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260 B	04/16/08 3:42	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.020	1	8260B	04/16/08 3:42	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00058	1	8260B	04/16/08 3:42	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0069	0.0011	1	8260B	04/16/08 3:42	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0069	0.0005	1	8260B	04/16/08 3:42	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project iD:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

 ct:
 U-4020/
 Client Sample ID:
 P28-12-12

 of St.
 Prism Sample ID:
 211186

 pone - Parcel
 COC Group:
 G0408348

 15.1.1
 Time Collected:
 04/09/08
 11:25

 Time Submitted:
 04/11/08
 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0069	0.00046	1	8260B	04/16/08 3:42	erusseil	Q31741
Naphthalene	BRL	mg/kg	0.014	0.00083	1	8260B	04/16/08 3:42	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0069	0.00029	1	8260B	04/16/08 3:42	erussell	Q31741
p-Isopropyitoluene	BRL	mg/kg	0.0069	0.00055	1	8260B	04/16/08 3:42	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0069	0.00047	1	8260B	04/16/08 3:42	erussell	Q31741
Styrene	BRL	mg/kg	0.0069	0.00077	1	8260B	04/16/08 3:42	erusseil	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0069	0.00058	1	8260B	04/16/08 3:42	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0069	0.00062	1	8260B	04/16/08 3:42	erussell	Q31741
Toluene	BRL	mg/kg	0.0069	0.00051	1	8260B	04/16/08 3:42	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0069	0.00089	1	8260B	04/16/08 3:42	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0069	0.00082	1	8260B	04/16/08 3:42	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0069	0.0010	1	8260B	04/16/08 3:42	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0069	0.0012	1	8260B	04/16/08 3:42	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.035	0.0019	1	8260B	04/16/08 3:42	erussell	Q31741
Vinyi chloride	BRL	mg/kg	0.0069	0.0012	1	8260B	04/16/08 3:42	erussell	Q31741

						Surrogate		% Re	covery	Con	trol Limits
					-	Toluene-d8			113		81 - 128
						Dibromofluc	promethane		107		67 - 143
						Bromofluoro	benzene		106		77 - 128
Diesel Range Organics (DRO) by Ge Diesel Range Organics (DRO)	<u>C-FID</u> BRL	mg/kg	9.6	1.6		1	8015B	04/21/08	19:16 j	vogel	Q31897
Sample Preparation:			25	.07 g	1	1 mL	3545	04/18/08	15:30	wconder	P21373
					_	Surrogate		% Re	covery	Con	trol Limits
					-	o-Terpheny	l		68		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-12-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211186	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	11:25
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL.	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.33	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.62	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	4.3	50	8015B	04/15/08 21:30	wbradley	Q31760

Surrogate	% Recovery	Control Limits
aaa-TFT	73	55 - 129
		· · · · · · · · · · · · · · · · · · ·

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-13-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211187	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	04/09/08	11:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	76.4	%			1	SM2540 G	04/15/08 11:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.89	g			1	5035	04/14/08 0:00	lbrown	
Weight Bisulfate 2	5.51	g			1	5035	04/14/08 0:00	lbrown	
Weight Methanol	5.05	g			1	5035	04/14/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>C/MS</u> BRL	mg/kg	0.0056	0.00066	1	8260B	04/16/08 4:14	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0056	0.0004	1	8260B	04/16/08 4:14	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0056	0.00059	1	8260B	04/16/08 4:14	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0056	0.00063	1	8260B	04/16/08 4:14	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0056	0.00096	1	8260B	04/16/08 4:14	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0056	0.00066	1	8260B	04/16/08 4:14	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0056	0.00063	1	8260B	04/16/08 4:14	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0056	0.00074	1	8260B	04/16/08 4:14	erusseli	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0056	0.00072	1	8260B	04/16/08 4:14	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0056	0.00028	1	8260B	04/16/08 4:14	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0056	0.00069	1	8260B	04/16/08 4:14	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0056	0.00036	1	8260B	04/16/08 4:14	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0056	0.00062	1	8260B	04/16/08 4:14	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0056	0.0013	1	8260B	04/16/08 4:14	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0056	0.00047	1	8260B	04/16/08 4:14	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0056	0.00037	1	8260B	04/16/08 4:14	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0056	0.00023	1	8260B	04/16/08 4:14	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/16/08 4:14	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0056	8000.0	1	8260B	04/16/08 4:14	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0056	0.00031	1	8260B	04/16/08 4:14	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-13-12

 Prism Sample ID:
 211187

 COC Group:
 G0408348

 Time Collected:
 04/09/08
 11:40

 Time Submitted:
 04/11/08
 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.056	0.0048	1	8260B	04/16/08 4:14	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0056	0.00041	1	8260B	04/16/08 4:14	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.056	0.0058	1	8260B	04/16/08 4:14	erusseli	Q31741
Acetone	BRL	mg/kg	0.056	0.016	1	8260B	04/16/08 4:14	erussell	Q31741
Benzene	BRL	mg/kg	0.0033	0.00047	1	8260B	04/16/08 4:14	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/16/08 4:14	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0056	0.00046	1	8260B	04/16/08 4:14	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0056	0.0006	1	8260B	04/16/08 4:14	erussell	Q31741
Bromoform	BRL	mg/kg	0.0056	0.0005	1	8260B	04/16/08 4:14	erussell	Q31741
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/16/08 4:14	erusseli	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0056	0.00037	1	8260B	04/16/08 4:14	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0056	0.00057	1	8260B	04/16/08 4:14	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0056	0.00051	1	8260B	04/16/08 4:14	erussell	Q31741
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/16/08 4:14	erussell	Q31741
Chloroform	BRL	mg/kg	0.0056	0.00092	1	8260B	04/16/08 4:14	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0056	0.0013	1	8260B	04/16/08 4:14	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0056	0.00089	1	8260B	04/16/08 4:14	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0056	0.00073	1	8260B	04/16/08 4:14	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0056	0.0015	1	8260B	04/16/08 4:14	erusseli	Q31741
Ethylbenzene	BRL	mg/kg	0.0056	0.00026	1	8260B	04/16/08 4:14	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0056	0.00051	1	8260B	04/1 6 /08 4:14	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0056	0.00032	1	8260B	04/16/08 4:14	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.011	0.00091	1	8260B	04/16/08 4:14	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/16/08 4:14	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00047	1	8260B	04/16/08 4:14	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0056	0.00091	1	8260B	04/16/08 4:14	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0056	0.0004	1	8260B	04/16/08 4:14	erussell	Q31741

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-13-12	
Prism Sample ID:	211187	
COC Group:	G0408348	
Time Collected:	04/09/08	11:40
Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0056	0.00037	1	8260B	04/16/08 4:14	erussell	Q31741
Naphthalene	BRL	mg/kg	0.011	0.00067	1	8260B	04/16/08 4:14	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0056	0.00023	1	8260B	04/16/08 4:14	erussell	Q31741
p-isopropyitoluene	BRL	mg/kg	0.0056	0.00044	1	8260B	04/16/08 4:14	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0056	0.00038	1	8260B	04/16/08 4:14	erussell	Q31741
Styrene	BRL	mg/kg	0.0056	0.00062	1	8260B	04/16/08 4:14	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0056	0.00047	1	8260B	04/16/08 4:14	erussell	Q31741
Tetrachloroethene	0.0048 J	mg/kg	0.0056	0.0005	1	8260B	04/16/08 4:14	erussell	Q31741
Toluene	BRL	mg/kg	0.0056	0.00041	1	8260B	04/16/08 4:14	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/16/08 4:14	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0056	0.00066	1	8260B	04/16/08 4:14	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0056	0.00081	1	8260B	04/16/08 4:14	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0056	0.00099	1	8260B	04/16/08 4:14	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/16/08 4:14	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0056	0.00097	1	8260B	04/16/08 4:14	erussell	Q31741

					Surrogate		% Re	covery	Con	trol Limits
					Toluene-d8	5		104		81 - 128
					Dibromoflu	oromethane		109		67 - 143
					Bromofluor	obenzene		103		77 - 128
Diesel Range Organics (DRO) by GC Diesel Range Organics (DRO)	:-FID BRL	mg/kg	9.1	1.5	1	8015B	04/21/08	19:52	jvogel	Q31897
Sample Preparation:			25.	13 g	/ 1mL	3545	04/18/08	15:30	wconder	P21373
					Surrogate		% Re	covery	cor	trol Limits
					o-Terpheny	N		63		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-13-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211187	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/09/08	11:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination							the Part of Management of Party of the Party		
Weight 1	5.59	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.23	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	/ GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.1	50	8015B	04/15/08 22:02	wbradley	Q31760

overy Control Lin	•	Surrogat
72 55 - 12	72	aaa-TFT

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-14-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211188	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Droiget May	28 WBS# 35015.1.1	Time Collected:	04/09/08	11:55
Morrisville, NC 27560	Project No.: Sample Matrix:		Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	78.6	%			1	SM2540 G	04/15/08 11:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.72	g			1	5035	04/14/08 0:00	Ibrown	
Weight Bisulfate 2	5.75	g			1	5035	04/14/08 0:00	Ibrown	
Weight Methanol	5.16	g			1	5035	04/14/08 0:00	Ibrown	
Volatile Organic Compounds by G	<u>:C/MS</u> BRL	mg/kg	0.0067	0.0008	1	8260B	04/16/08 4:45	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00049	1	8260B	04/16/08 4:45	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg		0.00071	1	8260B	04/16/08 4:45	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg		0.00077	1	8260B	04/16/08 4:45	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 4:45	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0067	0.0008	1	8260B	04/16/08 4:45	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0067	0.00077	1	8260B	04/16/08 4:45	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0067	0.0009	1	8260B	04/16/08 4:45	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0067	0.00088	1	8260B	04/16/08 4:45	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0067	0.00034	1	8260B	04/16/08 4:45	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0067	0.00084	1	8260B	04/16/08 4:45	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0067	0.00043	1	8260B	04/16/08 4:45	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0067	0.00075	1	8260B	04/16/08 4:45	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0067	0.0016	1	8260B	04/16/08 4:45	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0067	0.00057	1	8260B	04/16/08 4:45	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 4:45	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0067	0.00028	1	8260B	04/16/08 4:45	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 4:45	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0067	0.00097	1	8260B	04/16/08 4:45	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0067	0.00038	1	8260B	04/16/08 4:45	erussell	Q31741

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Laboratory Report

04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID: P28-14-12 Prism Sample ID: 211188 COC Group: G0408348 Time Collected: 04/09/08 11:55 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.067	0.0058	1	8260B	04/16/08 4:45	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0067	0.0005	1	8260B	04/16/08 4:45	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.067	0.0070	1	8260B	04/16/08 4:45	erussell	Q31741
Acetone	0.082	mg/kg	0.067	0.020	1	8260B	04/16/08 4:45	erussell	Q31741
Benzene	BRL	mg/kg	0.0040	0.00057	1	8260B	04/16/08 4:45	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 4:45	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0067	0.00055	1	8260B	04/16/08 4:45	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0067	0.00073	1	8260B	04/16/08 4:45	erusseil	Q31741
Bromoform	BRL	mg/kg	0.0067	0.00061	1	8260B	04/16/08 4:45	erussell	Q31741
Bromomethane	BRI.	mg/kg	0.013	0.0015	1	8260B	04/16/08 4:45	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 4:45	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0067	0.00069	1	8260B	04/16/08 4:45	erusseli	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0067	0.00062	1	8260B	04/16/08 4:45	erusseli	Q31741
Chloroethane	BRL	mg/kg	0.013	0.0023	1	8260B	04/16/08 4:45	erussell	Q31741
Chloroform	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 4:45	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0067	0.0016	1	8260B	04/16/08 4:45	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 4:45	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0067	0.00089	1	8260B	04/16/08 4:45	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0067	0.0019	1	8260B	04/16/08 4:45	erusseli	Q31741
Ethylbenzene	BRL	mg/kg	0.0067	0.00031	1	8260B	04/16/08 4:45	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0067	0.00062	1	8260B	04/16/08 4:45	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0067	0.00039	1	8260B	04/16/08 4:45	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.013	0.0011	1	8260B	04/16/08 4:45	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.020	1	8260B	04/16/08 4:45	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00057	1	8260B	04/16/08 4:45	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 4:45	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0067	0.00049	1	8260B	04/16/08 4:45	erussell	Q31741

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04/22/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Client Sample IProject ID:NCDOT: Boone - Parcel
28COC Group:
Time Collected
Time SubmittedProject No.:WBS# 35015.1.1Time Submitted

Client Sample ID:	P28-14-12	
Prism Sample ID:	211188	
COC Group:	G0408348	
Time Collected:	04/09/08	11:55
Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 4:45	erussell	Q31741
Naphthalene	BRL	mg/kg	0.013	0.00081	1	8260B	04/16/08 4:45	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0067	0.00028	1	8260B	04/16/08 4:45	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0067	0.00054	1	8260B	04/16/08 4:45	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0067	0.00046	1	8260B	04/16/08 4:45	erussell	Q31741
Styrene	BRL	mg/kg	0.0067	0.00075	1	8260B	04/16/08 4:45	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0067	0.00057	1	8260B	04/16/08 4:45	erussell	Q31741
Tetrachioroethene	5.4	mg/kg	0.34	0.030	50	8260B	04/16/08 13:49	erussell	Q31741
Toluene	BRL	mg/kg	0.0067	0.0005	1	8260B	04/16/08 4:45	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 4:45	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0067	0.0008	1	8260B	04/16/08 4:45	erussell	Q31741
Trichloroethene	0.0092	mg/kg	0.0067	0.00098	1	8260B	04/16/08 4:45	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 4:45	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.034	0.0019	1	8260B	04/16/08 4:45	erusseli	Q31741
Vinyl chloride	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 4:45	erussell	Q31741

					Surrogate		% Recovery		Control Limits	
					Toluene-d8			108		81 - 128
					Dibromoflu	promethane		106		67 - 143
					Bromofluor	obenzene		107		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) B	BRL	mg/kg	8.8	1.4	1	8015B	04/21/08	21:03	jvogel	Q31897
Sample Preparation:			25.	37g /	1 mL	3545	04/18/08	15:30	wconder	P21373
					Surrogate		% Re	covery	Con	trol Limits
					o-Terpheny	1		61		49 - 124

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04/22/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-14-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211188	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408348	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	04/09/08	11:55
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	8:30
	·				

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination	P.0000.000.0000000000000000000000					· ·	<u>, , , , , , , , , , , , , , , , , , , </u>	· · ·	innen erkentlimikerTUPtet Pflekk
Weight 1	5.54	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	5.37	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	04/15/08 22:33	wbradley	Q31760

ntrol Limits	% Recovery	Surrogate
55 - 129	78	aaa-TFT
· · · · ·		· · · · · · · · · · · · · · · · · · ·

Sample Comment(s):

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

04/22/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408348
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	4/11/200 8:30
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project No.:	28 WBS# 35015.1.1		

Volatile Organic Compounds by GC/MS, method 8260B

d Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31741
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31741
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31741
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31741
2-Hexanone	ND	0.05	<0.025	mg/kg	Q31741
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31741
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q31741
Acetone	ND	0.05	<0.025	mg/kg	Q31741
Benzene	ND	0.003	<0.0015	mg/kg	Q31741
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q31741
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q31741
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q31741
Bromoform	ND	0.005	<0.0025	mg/kg	Q31741
Bromomethane	ND	0.01	<0.005	mg/kg	Q31741
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q31741
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q31741
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q31741
Chloroethane	ND	0.01	<0.005	mg/kg	Q31741

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Level II QC Report

04/22/08

Morrisville. NC 27560	N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project Name: Project ID: Project No.:	State Project: U-4020/ 320 E. King St. NCDOT: Boone - Parcel 28 WBS# 35015.1.1	COC Group Number: Date/Time Submitted:	
-----------------------	--	---	--	---	--

Method Blank

Method Blank	Result	RL	Control Limit	Units			QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg			Q31741
Chloromethane	ND	0.005	<0.0025	mg/kg			Q31741
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q31741
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg			Q31741
Ethylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg			Q31741
Isopropylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
m,p-Xylenes	ND	0.01	<0.005	mg/kg			Q31741
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg			Q31741
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg			Q31741
Methylene chloride	ND	0.005	<0.0025	mg/kg			Q31741
n-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
n-Propylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Naphthalene	ND	0.01	<0.005	mg/kg			Q31741
o-Xylene	ND	0.005	<0.0025	mg/kg			Q31741
p-isopropyltoluene	ND	0.005	<0.0025	mg/kg			Q31741
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Styrene	ND	0.005	<0.0025	mg/kg			Q31741
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q31741
Tetrachloroethene	ND	0.005	<0.0025	mg/kg			Q31741
Toluene	ND	0.005	<0.0025	mg/kg			Q31741
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q31741
Trichloroethene	ND	0.005	<0.0025	mg/kg			Q31741
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg			Q31741
Vinyl acetate	ND	0.025	<0.0125	mg/kg			Q31741
Vinyl chloride	ND	0.005	<0.0025	mg/kg			Q31741
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	0.04182	0.05		mg/kg	84	57-122	Q31741
Benzene	0.04274	0.05		mg/kg	85	62-119	Q31741
Chlorobenzene	0.04245	0.05		mg/kg	85	61-124	Q31741
Toluene	0.04525	0.05		mg/kg	91	57-122	Q31741
Trichloroethene	0.04463	0.05		mg/kg	89	59-129	Q31741

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Level II QC Report

04/22/08

N. C. Department of Transportation		Project		State Proje		020/	COC Group	Number:	G0408348	ł
Attn: Martha Meyers-Lee c/o URS		Name: Project IE Project N	D:	320 E. Kin NCDOT: E 28	-	Bator Fillio Gublinteou.			4/11/200	8:3
1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560		FIDJECIN	0		VBS# 35015.1.1					
Matrix Spike	Result	Spike Amoun		Units	Recovery %	Recovery Ranges			QC Batch	
Sample ID:		-				%	0		004744	
210956 1,1-Dichloroethene	0.03473	0.05		mg/kg	69	44-14			Q31741	
Benzene	0.03513	0.05		mg/kg		46-13			Q31741	
Chlorobenzene	0.03172	0.05		mg/kg		47-13			Q31741	
Toluene	0.03487	0.05		mg/kg	70	47-13	6		Q31741	
Trichloroethene	0.04799	0.05		mg/kg	43 1	# 45-14	1		Q31741	
Matrix Spike Duplicate Sample ID:	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID	
210956 1,1-Dichloroethene	0.03604	0.05		mg/kg	72	44-14	0 4	0 - 23	Q31741	
Benzene	0.0341	0.05		mg/kg	68	46-13	63	0 - 22	Q31741	
Chlorobenzene	0.02652	0.05		mg/kg	53	47-13	5 18	0 - 22	Q31741	
Toluene	0.03171	0.05		mg/kg	63	47-13	69	0 - 22	Q31741	
Trichloroethene	0.05758	0.05		mg/kg	62	45-14	1 18	0 - 23	Q31741	
Gasoline Range Organics (GRO) by G	<u>SC-FID, m</u>	ethod 8015E	B							
Method Blank	Result	RL,	Control L	imit Units					QC Batch 1D	
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg					Q31760	
Laboratory Control Sample	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %			QC Batch ID	
Gasoline Range Organics (GRO)	49.4	50		mg/kg	99	67-11	6		Q31760	
Matrix Spike					Recovery	Recovery			QC Batch	
Sample ID:	Result	Spike Amoun	ıt	Units	%	Ranges %			D	
211179 Gasoline Range Organics (GRO)	55.9	50		mg/kg	112	57-11	3		Q31760	
Matrix Spike Duplicate					Recovery	Recovery Ranges	RPD	RPD Range	QC Batch	
Sample ID:	Result	Spike Amoun	at 🛛	Units	%		%	%	ID	
211179 Gasoline Range Organics	54.8	50		mg/kg	110	57-11	32	0 - 23	Q31760	

(GRO)

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Level II QC Report

04/22/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408348
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	4/11/200 8:30
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28		
Morrisville, NC 27560		WBS# 35015.1.1		

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

Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31897
Laboratory Control Sample	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	56.4	80		mg/kg	71	55-109			Q31897
Matrix Spike Sample ID:	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %			QC Batch ID
211179 Diesel Range Organics (DRO)	57.5	80		mg/kg	72	50-117			Q31897
Matrix Spike Duplicate Sample ID:	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
211179 Diesel Range Organics (DRO)	54.4	80		mg/kg	68	50-117	6	0 - 24	Q31897

#-See Case Narrative

	YES NO N/A		^ 			PLING PERSONNEL		N/A	PRISM	tks LAB ID NO.	s alling	allizo	ANISI	311132	AIII33	ોાસ	A11135	Jurge	હોાા કર	31433	PRESS DOWN FIRMLY . 3 COPIES	PRISM USE ONLY	Šite Arrival Time:	Site Departure Time:	Field Tech Fee:	Mileage:		Steven and a standard and a standard and a standard and a standard a st	TERMS & CONDITIONS	ORIGINAL
LAB USE ONLY	Samples INTACT upon arrival?	Received ON WET ICE? Temp 5.0	PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? CLISTODY SEALS INTACT?	VOLATILES rec'd W/OUT HEADSPACE?		TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL	NELAC	SCOTHER Water Chlorinated: YES NO Sample Iced Upon Collection: YES	ESTED	REMARKS	T										PRESS DOWI		Additional Comments:	T				_	sc	ace)
RECORD			~~~~			35015.1.1	D 4 Days D 5 Days Certification:			the contract of a series of	2 1 1 3	3	<u>a</u> 1 1 3	3 1 1	-	9 1 7	3 / /			a 1 1 3	Affiliation URS	e. Any changes must be zed.	CEN KANA	- -	Date	4-11-08 8:30	COC Group No.	6-	D NC D SC D NC D	= Volatile Organics Analysis (Zero Head Space)
CUSTODY R	UOTE # TO ENSURE PROPER BILLING:	C DUT - BONLE	Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No *Please ATTACH any project specific reporting (QC LEVEL 1 II III V)	urrements	Project 11-4030	عكلانياه	□ 1 Day □ 2 Days □ 3 Days □ 4 Days □ 6.0 Days Notendard 10 days □ Bush	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 RENDERFOR Y DRISM LABORATORIES, INC. TO CLIENTI		TIVES	t -fuctional	1-3-12	بر ۱-۲۵۵۲	1-3e2-1		~102	202	5-40~r		>	4 Meese	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.		Con .			ТАТІОN ТО ТНЕ LABUHAI UHY. ORY.		CHA: NC D SC	ed Cap VOA = Volatile Orga
CHAIN OF	PAGE OF QUOTE #	Name: N	Short Hold Analysis: (Y *Please ATTACH any proj	Lee provisions and/or QC Requirements	Address:	Purchase Order No./Billin	Hequested Due Date D 1 Day "Working Date" D 6-0 D	Turnaround time to be be be been attent 15:00 w Samples received attent 15:00 w Turnaround time is based on bu (SEE REVERSE FOR TERMS RENDERFOR BY PRISM LAB		*TYPE NO.	G 7 3	- 1 	C 1 5-404	C H 1-187	6 4	C J Priver	<u>بر بر بر</u> ح ک	3-	<u>م</u>	c 2	Sampled By (Print Name) M.C. H.J.	Prism to proceed with the hardes ofte	Sing By: (Signatura)	live By: (Signature)	Received For Prism Laboratories By:	May Dawi	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.	-		J I I I I A = Amber C = Clear G = Glass P = Plastic; TL = Tellon-Lined Cap VOA
		ions	IC 28224-0543			<u>- 461-1415</u>		B.St.		WATER OR SLUDGE)	Sail	•								>	Sampled B	uthorization for There will be c	Rec	Recei	Contraction of the second seco		TAPED SHUT WITH			⊡ ≳ar G = Glass
PRISM	TORIES, INC.	Full Service Analytical & Environmental Solutions	3 • Charlotte, NC 28. 109 (ని. 20 గ లేగ రిగా	Martha Merley	0	Fax (Yes) (No): <u>119 - 4(6(-1415</u>	er	28 20 E. Kingst		HOURS	0905	0930	0945	10 00	0.30	1050	1115	1125	1140	1155	llar	stody is your a liect Manager.			1108 0		LERS SHOULD BE Epted and Verif		D SC	Amber C = Cle
PR		a Analytical & Env	P.O. Box 24054 Fax: 704/525-04 e: (J.R.S	me: Mart	1 1	DO Fax (Ve	Excel Other	Povce I Address:		COLLECTED	4-9-08									V	Laster.	s Chain of Cut the Prism Pro		In Ch	flues 4	K	ALL SAMPLE COO	100	₹÷ ₽	-
		Full Service	449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0409 Client Company Name: (人化ン (かくのひく ふがひい	Report To/Contact Name: Mar Who Werle YS	M Winzing	Phone: <u>919 - 4161 - 100</u>	EDD Type: PDF E	ame		CLIENI SAMPLE DESCRIPTION	P28-5-8	10	628-7-12	928-8-8	61-6-829	P28-10-12	028-11-12	928-12-12	61-81-829	C1-H-880	Samoler's Signature	Upon relinquishing, this submitted in writing to	Relinquished By: (Signature)	Relingersted By: (Signature)	Balindin Kar King (Signatura)		Method of Shipment: NOTE: / SAMPLI	Squ	NC D SC D NC	CONTAINER TYPE CODES:





Date: 04/28/08 Company: N. C. Department of Transportation Contact: Martha Meyers-Lee Address: c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Client Project ID: NCDOT: Boone - Parcel 28 Prism COC Group No: G0408357 Collection Date(s): 04/11/08 04/11/08 Lab Submittal Date(s);

Client Project Name Or No: State Project: U-4020/ 320 E. King

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 19 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:

Signature: **Review Date:**

Robbi A. Jones Project Manager: 04/28/08

Signature: Approval Date:

Robbi A. Jones 04/28/08

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.

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04/28/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-15-16	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211341	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408357	
1600 Perimeter Park Dr. Suite 400	Proiect No.:	WBS# 35015.1.1	Time Collected:	04/11/08	10:35
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	85.2	%			1	SM2540 G	04/17/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.33	g			1	5035	04/16/08 0:00	lbrown	
Weight Bisulfate 2	5.02	ġ			1	5035	04/16/08 0:00	lbrown	
Weight Methanol	4.53	g			1	5035	04/16/08 0:00	Ibrown	
Volatile Organic Compounds by GC			0.0055	0.00005			· · · · · · · · · · · ·		
1,1,1-Trichloroethane	BRL	mg/kg		0.00065	1	8260B	04/17/08 2:45	lwitry	Q31778
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.0004	1	8260B	04/17/08 2:45	lwitry	Q31778
1,1,2-Trichloroethane	BRL	mg/kg		0.00058	1	8260B	04/17/08 2:45	lwitry	Q31778
1,1-Dichloroethane	BRL	mg/kg		0.00063	1	8260B	04/17/08 2:45	lwitry	Q31778
1,1-Dichloroethene	BRL	mg/kg		0.00095	1	8260B	04/17/08 2:45	lwitry	Q31778
1,1-Dichloropropene	BRL	mg/kg		0.00065	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2,3-Trichlorobenzene	BRL	mg/kg		0.00063	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2,3-Trichloropropane	BRL	mg/kg		0.00074	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0055	0.00072	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0055	0.00028	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0055	0.00068	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2-Dichlorobenzene	BRL	mg/kg	0.0055	0.00035	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2-Dichloroethane	BRL	mg/kg	0.0055	0.00062	1	8260B	04/17/08 2:45	lwitry	Q31778
1,2-Dichloropropane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/17/08 2:45	lwitry	Q31778
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/17/08 2:45	lwitry	Q31778
1,3-Dichlorobenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/17/08 2:45	lwitry	Q31778
1,3-Dichloropropane	BRL.	mg/kg	0.0055	0.00023	1	8260B	04/17/08 2:45	lwitry	Q31778
1,4-Dichlorobenzene	BRL.	mg/kg	0.0055	0.0007	1	8260B	04/17/08 2:45	lwitry	Q31778
2,2-Dichloropropane	BRL	mg/kg	0.0055	0.00079	1	8260B	04/17/08 2:45	lwitry	Q31778
2-Chlorotoluene	BRL	mg/kg	0.0055	0.00031	1	8260B	04/17/08 2:45	lwitry	Q31778

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-15-16

 Prism Sample ID:
 211341

 COC Group:
 G0408357

 Time Collected:
 04/11/08
 10:35

 Time Submitted:
 04/11/08
 16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.055	0.0047	1	8260B	04/17/08 2:45	lwitry	Q31778
4-Chlorotoluene	BRL	mg/kg	0.0055	0.00041	1	8260B	04/17/08 2:45	lwitry	Q31778
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.055	0.0057	1	8260B	04/17/08 2:45	lwitry	Q31778
Acetone	BRL	mg/kg	0.055	0.016	1	8260B	04/17/08 2:45	lwitry	Q31778
Benzene -	BRL	mg/kg	0.0033	0.00046	1	8260B	04/17/08 2:45	lwitry	Q31778
Bromobenzene	BRL	mg/kg	0.0055	0.0007	1	8260B	04/17/08 2:45	lwitry	Q31778
Bromochloromethane	BRL	mg/kg	0.0055	0.00045	1	8260B	04/17/08 2:45	lwitry	Q31778
Bromodichloromethane	BRL	mg/kg	0.0055	0.00059	1	8260B	04/17/08 2:45	lwitry	Q31778
Bromoform	BRL	mg/kg	0.0055	0.0005	1	8260B	04/17/08 2:45	lwitry	Q31778
Bromomethane	BRL	mg/kg	0.011	0.0012	1	8260B	04/17/08 2:45	lwitry	Q31778
Carbon tetrachloride	BRL	mg/kg	0.0055	0.00036	1	8260B	04/17/08 2:45	lwitry	Q31778
Chlorobenzene	BRL	mg/kg	0.0055	0.00056	1	8260B	04/17/08 2:45	lwitry	Q31778
Chlorodibromomethane	BRL	mg/kg	0.0055	0.00051	1	8260B	04/17/08 2:45	lwitry	Q31778
Chloroethane	BRL	mg/kg	0.011	0.0018	1	8260B	04/17/08 2:45	lwitry	Q31778
Chloroform	BRL	mg/kg	0.0055	0.00091	1	8260B	04/17/08 2:45	lwitry	Q31778
Chloromethane	BRL	mg/kg	0.0055	0.0013	1	8260B	04/17/08 2:45	lwitry	Q31778
cis-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.00088	1	8260B	04/17/08 2:45	lwitry	Q31778
cis-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00073	1	8260B	04/17/08 2:45	lwitry	Q31778
Dichlorodifluoromethane	BRL	mg/kg	0.0055	0.0015	1	8260B	04/17/08 2:45	lwitry	Q31778
Ethylbenzene	BRL	mg/kg	0.0055	0.00025	1	8260B	04/17/08 2:45	lwitry	Q31778
Isopropyl ether (IPE)	BRL	mg/kg	0.0055	0.00051	1	8260B	04/17/08 2:45	lwitry	Q31778
Isopropylbenzene	BRL	mg/kg	0.0055	0.00032	1	8260B	04/17/08 2:45	lwitry	Q31778
m,p-Xylenes	BRL	mg/kg	0.011	0.0009	1	8260B	04/17/08 2:45	lwitry	Q31778
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/17/08 2:45	lwitry	Q31778
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00046	1	8260B	04/17/08 2:45	lwitry	Q31778
Methylene chloride	BRL	mg/kg	0.0055	0.0009	1	8260B	04/17/08 2:45	lwitry	Q31778
n-Butylbenzene	BRL	mg/kg	0.0055	0.0004	1	8260B	04/17/08 2:45	lwitry	Q31778

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-15-16	
Prism Sample ID:	211341	
COC Group:	G0408357	
Time Collected:	04/11/08	10:35
Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0055	0.00036	1	8260B	04/17/08 2:45	lwitry	Q31778
Naphthalene	BRL	mg/kg	0.011	0.00066	1	8260B	04/17/08 2:45	lwitry	Q31778
o-Xylene	BRL	mg/kg	0.0055	0.00023	1	8260B	04/17/08 2:45	lwitry	Q31778
p-lsopropyltoluene	BRL	mg/kg	0.0055	0.00044	1	8260B	04/17/08 2:45	lwitry	Q31778
sec-Butylbenzene	BRL	mg/kg	0.0055	0.00037	1	8260B	04/17/08 2:45	lwitry	Q31778
Styrene	BRL	mg/kg	0.0055	0.00062	1	8260B	04/17/08 2:45	lwitry	Q31778
tert-Butylbenzene	BRL	mg/kg	0.0055	0.00046	1	8260B	04/17/08 2:45	lwitry	Q31778
Tetrachloroethene	0.0028 J	mg/kg	0.0055	0.0005	1	8260B	04/17/08 2:45	lwitry	Q31778
Toluene	0.0035 J	mg/kg	0.0055	0.00041	1	8260B	04/17/08 2:45	lwitry	Q31778
trans-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.0007	1	8260B	04/17/08 2:45	lwitry	Q31778
trans-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.00065	1	8260B	04/17/08 2:45	lwitry	Q31778
Trichloroethene	BRL	mg/kg	0.0055	0.0008	1	8260B	04/17/08 2:45	lwitry	Q31778
Trichlorofluoromethane	BRL	mg/kg	0.0055	0.00098	1	8260B	04/17/08 2:45	lwitry	Q31778
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/17/08 2:45	lwitry	Q31778
Vinyl chloride	BRL	mg/kg	0.0055	0.00096	1	8260B	04/17/08 2:45	lwitry	Q31778

					S	Surrogate		% Re	covery	Cor	ntrol Limits
					T	oluene-d8			101		81 - 128
					C	Dibromofluc	promethane		98		67 - 143
					Ε	Bromofluoro	benzene		102		77 - 128
Diesel Range Organics (DRO) by G Diesel Range Organics (DRO)	<u>iC-FID</u> BRL	mg/kg	8.2	1.3		1	8015B	04/25/08	16:34	vogel	Q32010
Sample Preparation:			25.	13 g	1	1 mL	3545	04/24/08	16:50 wconder		P21436
					S	Surrogate		% Re	ecovery Co		ntrol Limits
					C	-Terpheny	1		68		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-15-16	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211341	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408357	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/11/08	10:35
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									· · · · ·
Weight 1	4.94	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	5.14	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL.	mg/kg	5.9	3.7	50	8015B	04/21/08 16:18	5 wbradley	Q31861

Surrogate
aaa-TFT

Sample Comment(s):

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



04/28/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-16-16	i
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211342	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0408357	,
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	04/11/08	11:10
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	87.7	%			1	SM2540 G	04/17/08 14:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.56	g			1	5035	04/16/08 0:00	lbrown	
Weight Bisulfate 2	4.58	g			1	5035	04/16/08 0:00	ibrown	
Weight Methanol	4.25	g			1	5035	04/16/08 0:00	lbrown	
Volatile Organic Compounds by GO 1,1,1-Trichloroethane	C <u>/MS</u> BRL	mg/kg	0.0063	0.00074	1	8260B	04/17/08 3:29	lwitry	Q31778
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0063	0.00045	1	8260B	04/17/08 3:29	lwitry	Q31778
1,1,2-Trichloroethane	BRL	mg/kg	0.0063	0.00066	1	8260B	04/17/08 3:29	lwitry	Q31778
1,1-Dichloroethane	BRL	mg/kg	0.0063	0.00071	1	8260B	04/17/08 3:29	lwitry	Q31778
1,1-Dichloroethene	BRL	mg/kg	0.0063	0.0011	1	8260B	04/17/08 3:29	lwitry	Q31778
1,1-Dichloropropene	BRL	mg/kg	0.0063	0.00074	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0063	0.00071	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2,3-Trichloropropane	BRL	mg/kg	0.0063	0.00084	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0063	0.00031	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0063	0.00078	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2-Dichlorobenzene	BRL	mg/kg	0.0063	0.0004	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2-Dichloroethane	BRL	mg/kg	0.0063	0.0007	1	8260B	04/17/08 3:29	lwitry	Q31778
1,2-Dichloropropane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/17/08 3:29	lwitry	Q31778
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/17/08 3:29	lwitry	Q31778
1,3-Dichlorobenzene	BRL	mg/kg	0.0063	0.00041	1	8260B	04/17/08 3:29	lwitry	Q31778
1,3-Dichloropropane	BRL	mg/kg	0.0063	0.00026	1	8260B	04/17/08 3:29	lwitry	Q31778
1,4-Dichlorobenzene	BRL	mg/kg	0.0063	8000.0	1	8260B	04/17/08 3:29	lwitry	Q31778
2,2-Dichloropropane	BRL	mg/kg	0.0063	0.0009	1	8260B	04/17/08 3:29	lwitry	Q31778
2-Chlorotoluene	BRL	mg/kg	0.0063	0.00035	1	8260B	04/17/08 3:29	lwitry	Q31778

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04/28/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Client Sa
Prism SaProject ID:NCDOT: Boone - Parcel
28COC Gro
Time Col
Time Col
Time SubProject No.:WBS# 35015.1.1Time Sub

Client Sample ID:	P28-16-16	
Prism Sample ID:	211342	
COC Group:	G0408357	
Time Collected:	04/11/08	11:10
Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.063	0.0054	1	8260B	04/17/08 3:29	lwitry	Q31778
4-Chlorotoluene	BRL	mg/kg	0.0063	0.00046	1	8260B	04/17/08 3:29	lwitry	Q31778
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.063	0.0065	1	8260B	04/17/08 3:29	lwitry	Q31778
Acetone	BRL	mg/kg	0.063	0.019	1	8260B	04/17/08 3:29	lwitry	Q31778
Benzene	BRL	mg/kg	0.0038	0.00053	1	8260B	04/17/08 3:29	lwitry	Q31778
Bromobenzene	BRL	mg/kg	0.0063	8000.0	1	8260B	04/17/08 3:29	lwitry	Q31778
Bromochloromethane	BRL	mg/kg	0.0063	0.00051	1	8260B	04/17/08 3:29	lwitry	Q31778
Bromodichloromethane	BRL	mg/kg	0.0063	0.00068	1	8260B	04/17/08 3:29	lwitry	Q31778
Bromoform	BRL	mg/kg	0.0063	0.00056	1	8260B	04/17/08 3:29	lwitry	Q31778
Bromomethane	BRL	mg/kg	0.013	0.0014	1	8260B	04/17/08 3:29	lwitry	Q31778
Carbon tetrachloride	BRL	mg/kg	0.0063	0.00041	1	8260B	04/17/08 3:29	lwitry	Q31778
Chlorobenzene	BRL	mg/kg	0.0063	0.00064	1	8260B	04/17/08 3:29	lwitry	Q31778
Chlorodibromomethane	BRL	mg/kg	0.0063	0.00058	1	8260B	04/17/08 3:29	lwitry	Q31778
Chloroethane	BRL	mg/kg	0.013	0.0021	1	8260B	04/17/08 3:29	lwitry	Q31778
Chloroform	BRL	mg/kg	0.0063	0.0010	1	8260B	04/17/08 3:29	lwitry	Q31778
Chloromethane	BRL	mg/kg	0.0063	0.0015	1	8260B	04/17/08 3:29	lwitry	Q31778
cis-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.0010	1	8260B	04/17/08 3:29	lwitry	Q31778
cis-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00083	1	8260B	04/17/08 3:29	lwitry	Q31778
Dichlorodifluoromethane	BRL	mg/kg	0.0063	0.0017	1	8260B	04/17/08 3:29	lwitry	Q31778
Ethylbenzene	BRL	mg/kg	0.0063	0.00029	1	8260B	04/17/08 3:29	lwitry	Q31778
Isopropyl ether (IPE)	BRL	mg/kg	0.0063	0.00058	1	8260B	04/17/08 3:29	lwitry	Q31778
Isopropylbenzene	BRL	mg/kg	0.0063	0.00036	1	8260B	04/17/08 3:29	lwitry	Q31778
m,p-Xylenes	BRL	mg/kg	0.013	0.0010	1	8260B	04/17/08 3:29	lwitry	Q31778
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.018	1	8260B	04/17/08 3:29	lwitry	Q31778
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00053	1	8260B	04/17/08 3:29	lwitry	Q31778
Methylene chloride	BRL	mg/kg	0.0063	0.0010	1	8260B	04/1 7/08 3:29	lwitry	Q31778
n-Butylbenzene	BRL	mg/kg	0.0063	0.00045	1	8260B	04/17/08 3:29	lwitry	Q31778

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11:10

16:15

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Client Sample ID:P28-16-16Project ID:NCDOT: Boone - Parcel
28COC Group:G0408357Project No.:WBS# 35015.1.1Time Collected:04/11/08Sample Matrix:SoilTime Submitted:04/11/08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0063	0.00041	1	8260B	04/17/08 3:29	lwitry	Q31778
Naphthalene	BRL	mg/kg	0.013	0.00075	1	8260B	04/17/08 3:29	lwitry	Q31778
o-Xylene	BRL	mg/kg	0.0063	0.00026	1	8260B	04/17/08 3:29	lwitry	Q31778
p-isopropyltoluene	BRL	mg/kg	0.0063	0.0005	1	8260B	04/17/08 3:29	lwitry	Q31778
sec-Butylbenzene	BRL	mg/kg	0.0063	0.00043	1	8260B	04/17/08 3:29	lwitry	Q31778
Styrene	BRL	mg/kg	0.0063	0.0007	1	8260B	04/17/08 3:29	lwitry	Q31778
tert-Butylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	04/17/08 3:29	lwitry	Q31778
Tetrachloroethene	BRL	mg/kg	0.0063	0.00056	1	8260B	04/17/08 3:29	lwitry	Q31778
Toluene	BRL	mg/kg	0.0063	0.00046	1	8260B	04/17/08 3:29	lwitry	Q31778
trans-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.0008	1	8260B	04/17/08 3:29	lwitry	Q31778
trans-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00074	1	8260B	04/17/08 3:29	lwitry	Q31778
Trichloroethene	BRL	mg/kg	0.0063	0.00091	1	8260B	04/17/08 3:29	lwitry	Q31778
Trichlorofluoromethane	BRL	mg/kg	0.0063	0.0011	1	8260B	04/17/08 3:29	lwitry	Q31778
Vinyl acetate	BRL	mg/kg	0.031	0.0018	1	8260B	04/17/08 3:29	lwitry	Q31778
Vinyl chloride	BRL	mg/kg	0.0063	0.0011	1	8260B	04/17/08 3:29	lwitry	Q31778

					Surrogate			% Re	covery	Co	Control Limits	
					7	Foluene-d8			102		81 - 128	
						Dibromofluoromethane		98			67 - 143	
					E	Bromofluoro	benzene		102		77 - 128	
<u>Diesel Range Organics (DRO) by G</u> Diesel Range Organics (DRO)	<u>C-FID</u> BRL	mg/kg	7.9	1.3		1	8015B	04/23/08	1:31	jvogel	Q32010	
Sample Preparation:			25	17 g	1	1 mL	3545	04/24/08	16:50	wconde	r P21436	
					S	Surrogate		% Re	covery	Co	ontrol Limits	
					C	o-Terpheny			74		49 - 124	

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-16-16	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	211342	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0408357	
1600 Perimeter Park Dr. Suite 400	Broject No.	20 WBS# 35015.1.1	Time Collected:	04/11/08	11:10
Morrisville, NC 27560	Project No.:		Time Submitted:	04/11/08	16:15
	Sample Matrix:	3011			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination					16 ali				
Weight 1	4.24	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	4.07	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/21/08 11:13	7 wbradley	Q31861

Control Limits	% Recovery	Surrogate
55 - 129	81	aaa-TFT
		·

Sample Comment(s):

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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N. C. Department of TransportationProject NAttn: Martha Meyers-LeeProject IEc/o URSProject IE1600 Perimeter Park Dr. Suite 400Project NMorrisville, NC 27560Sample M

Project Name: State Project: U-4020/ Client Sample ID: TB-2 320 E. King St. Prism Sample ID: 211343 Project ID: NCDOT: Boone - Parcel COC Group: G0408357 28 Time Collected: 04/11/08 11:30 Project No.: WBS# 35015.1.1 Time Submitted: 04/11/08 16:15 Sample Matrix: Water

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis A Date/Time	nalyst Batch ID
Volatile Organic Compounds by G	C/MS							
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1,1-Trichloroethane	BRL	μ g/L	1.0	0.20	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2,3-Trichlorobenzene	BRL	μg/L	2.0	0.24	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,2-Dichloropropane	BRL	μg/L	1.0	0.17	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,3-Dichloropropane	BRL	μg/L	1.0	0.12	1	8260B	04/21/08 15:31 lwitr	y Q31876
1,4-Dichlorobenzene	BRL	μg/L	1.0	0.10	1	8260B	04/21/08 15:31 lwitr	y Q31876
2,2-Dichloropropane	BRL	μg/L	2.0	0.21	1	8260B	04/21/08 15:31 lwitr	y Q31876
2-Chloroethyl vinyl ether	BRL	μg/L	2.0	0.41	1	8260B	04/21/08 15:31 lwitr	y Q31876
2-Chlorotoluene	BRL	μg/L	1.0	0.12	1	8260B	04/21/08 15:31 lwitr	y Q31876
2-Hexanone	BRL	μg/L	5.0	0.23	1	8260B	04/21/08 15:31 lwitr	y Q31876
4-Chlorotoluene	BRL	μg/L	1.0	0.10	1	8260B	04/21/08 15:31 lwitr	y Q31876
4-Methyl-2-pentanone (MIBK)	BRL	μg/L	5.0	0.46	1	8260B	04/21/08 15:31 lwitr	y Q31876
Acetone	BRL	µg/L	10	0.44	1	8260B	04/21/08 15:31 lwitr	y Q31876

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project:U-4020/Client320 E. King St.PrismProject ID:NCDOT:Boone - ParcelCOC28TimeProject No.:WBS# 35015.1.1TimeSample Matrix:WaterTime

Client Sample ID:	TB-2	
Prism Sample ID:	211343	
COC Group:	G0408357	
Time Collected:	04/11/08	11:30
Time Submitted:	04/11/08	16:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL.	μg/L	100	0.54	1	8260B	04/21/08 15:31	lwitry	Q31876
Acrylonitrile	BRL	μg/L	100	0.43	1	8260B	04/21/08 15:31	lwitry	Q31876
Benzene	BRL	μg/L	1.0	0.094	1	8260B	04/21/08 15:31	lwitry	Q31876
Bromobenzene	BRL	μg/L	1.0	0.088	1	8260B	04/21/08 15:31	lwitry	Q31876
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	04/21/08 15:31	lwitry	Q31876
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	04/21/08 15:31	lwitry	Q31876
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	04/21/08 15:31	lwitry	Q31876
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	04/21/08 15:31	lwitry	Q31876
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	04/21/08 15:31	lwitry	Q31876
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	04/21/08 15:31	lwitry	Q31876
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/21/08 15:31	lwitry	Q31876
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	04/21/08 15:31	lwitry	Q31876
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	04/21/08 15:31	lwitry	Q31876
Chioroform	BRL	µg/L	1.0	0.080	1	8260B	04/21/08 15:31	lwitry	Q31876
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	04/21/08 15:31	lwitry	Q31876
cis-1,2-Dichloroethene	BRL	μg/L	1.0	0.12	1	8260B	04/21/08 15:31	lwitry	Q31876
cis-1,3-Dichloropropene	BRL	μg/L	1.0	0.0 9 7	1	8260B	04/21/08 15:31	lwitry	Q31876
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	04/21/08 15:31	lwitry	Q31876
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	04/21/08 15:31	lwitry	Q31876
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	04/21/08 15:31	lwitry	Q31876
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	04/21/08 15:31	lwitry	Q31876
Isopropyl ether (IPE)	BRL	μg/L	1.0	0.079	1	8260B	04/21/08 15:31	lwitry	Q31876
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	04/21/08 15:31	lwitry	Q31876
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	04/21/08 15:31	lwitry	Q31876
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	04/21/08 15:31	lwitry	Q31876
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	04/21/08 15:31	lwitry	Q31876
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	04/21/08 15:31	lwitry	Q31876

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.
 Client Samp Prism Samp

 Project ID:
 NCDOT: Boone - Parcel 28
 COC Group: Time Collect

 Project No.:
 WBS# 35015.1.1
 Time Submit

 Sample Matrix:
 Water
 Time Submit

Client Sample ID:	TB-2	
Prism Sample ID:	211343	
COC Group:	G0408357	
Time Collected:	04/11/08	11:30
Time Submitted:	04/11/08	16:15

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	04/21/08 15:31	lwitry	Q31876
n-Propylbenzene	BRL	μg/L	1.0	0.18	1	8260B	04/21/08 15:31	lwitry	Q31876
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	04/21/08 15:31	lwitry .	Q31876
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	04/21/08 15:31	lwitry	Q31876
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	04/21/08 15:31	lwitry	Q31876
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	04/21/08 15:31	lwitry	Q31876
Styrene	BRL	µg/L	1.0	0.11	1	8260B	04/21/08 15:31	lwitry	Q31876
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	04/21/08 15:31	lwitry	Q31876
Tetrachloroethene	BRL	μg/L	1.0	0.17	1	8260B	04/21/08 15:31	lwitry	Q31876
Toluene	BRL	µg/L	1.0	0.31	1	8260B	04/21/08 15:31	lwitry	Q31876
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	04/21/08 15:31	lwitry	Q31876
trans-1,3-Dichloropropene	BRL	μg/L	1.0	0.22	1	8260B	04/21/08 15:31	lwitry	Q31876
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	04/21/08 15:31	lwitry	Q31876
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	04/21/08 15:31	lwitry	Q31876
Vinyl acetate	BRL	μg/L	20	0.44	1	8260B	04/21/08 15:31	lwitry	Q31876
Vinyl chloride	BRL	μg/L	2.0	0.23	1	8260B	04/21/08 15:31	lwitry	Q31876

% Recovery	Control Limits
88	75 - 121
107	74 - 133
81	69 - 139
	88 107

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Laboratory Report

04/28/08

N. C. Department of Transportation Attn: Martha Meyers-Lee	Project Name:	State Project: U-4020/ 320 E. King St.	Client Sample ID: Prism Sample ID:		
c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project ID: Project No.: Sample Matrix:	NCDOT: Boone - Parcel 28 WBS# 35015.1.1	COC Group: Time Collected:	G0408357 04/11/08	11:30 16:15

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

Sample Comment(s):

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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Level II QC Report

04/28/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number: G0408357	
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted: 4/11/200 16:1	5
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28		
Morrisville, NC 27560		WBS# 35015.1.1		

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	Q31778
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q31778
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q31778
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31778
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q31778
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q31778
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q31778
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q31778
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q31778
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31778
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31778
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q31778
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31778
2-Hexanone	ND	0.05	<0.025	mg/kg	Q31778
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q31778
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q31778
Acetone	ND	0.05	<0.025	mg/kg	Q31778
Benzene	ND	0.003	<0.0015	mg/kg	Q31778
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q31778
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q31778
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q31778
Bromoform	ND	0.005	<0.0025	mg/kg	Q31778
Bromomethane	ND	0.01	<0.005	mg/kg	Q31778
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q31778
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q31778
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q31778
Chloroethane	ND	0.01	<0.005	mg/kg	Q31778

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



Level II QC Report

04/28/08

1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Method Blank	Project No.:	28 WBS# 35015.1.1		
N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS	Project Name: Project ID:	State Project: U-4020/ 320 E. King St. NCDOT: Boone - Parcel	COC Group Number: Date/Time Submitted:	

QC Batch Result RL Control Limit Units Chloroform ND <0.0025 0.005 mg/kg Q31778 Chloromethane ND < 0.0025 0.005 mg/kg Q31778 cis-1.2-Dichloroethene ND 0.005 <0.0025 ma/ka Q31778 cis-1,3-Dichloropropene ND 0.005 < 0.0025 mg/kg Q31778 Dichlorodifluoromethane ND 0.005 < 0.0025 mg/kg Q31778 Ethylbenzene ND 0.005 < 0.0025 mg/kg Q31778 Isopropyl ether (IPE) ND 0.005 < 0.0025 mg/kg Q31778 ND isopropylbenzene 0.005 < 0.0025 mg/kg Q31778 m,p-Xylenes ND 0.01 < 0.005 mg/kg Q31778 Methyl ethyl ketone (MEK) ND 0.1 < 0.05 mg/kg Q31778 Methyl t-butyl ether (MTBE) ND 0.01 <0.005 mg/kg Q31778 Methylene chloride ND 0.005 < 0.0025 Q31778 mg/kg ND n-Butylbenzene 0.005 < 0.0025 mg/kg Q31778 n-Propylbenzene ND 0.005 < 0.0025 mg/kg Q31778 Naphthalene ND 0.01 < 0.005 Q31778 mg/kg o-Xylene ND 0.005 < 0.0025 mg/kg Q31778 p-isopropyltoluene ND 0.005 < 0.0025 mg/kg Q31778 sec-Butylbenzene ND 0.005 < 0.0025 mg/kg Q31778 Styrene ND 0.005 < 0.0025 mg/kg Q31778 tert-Butylbenzene ND 0.005 < 0.0025 mg/kg Q31778 Tetrachloroethene ND 0.005 < 0.0025 mg/kg Q31778 Toluene ND 0.005 < 0.0025 mg/kg Q31778 trans-1.2-Dichloroethene ND 0.005 < 0.0025 mg/kg Q31778 trans-1,3-Dichloropropene ND 0.005 < 0.0025 mg/kg Q31778 Trichloroethene ND < 0.0025 0.005 Q31778 mg/kg Trichlorofluoromethane ND 0.005 < 0.0025 mg/kg Q31778 Vinyl acetate ND 0.025 < 0.0125 Q31778 mg/kg Vinyl chloride ND 0.005 < 0.0025 mg/kg Q31778 Laboratory Control Sample Recovery Recovery QC Batch Ranges Result Spike Amount Units % ۱D % 1,1-Dichloroethene 0.04713 0.05 mg/kg 94 57-122 Q31778 Benzene 0.04824 0.05 mg/kg 96 62-119 Q31778 Chlorobenzene 0.04389 0.05 mg/kg 88 61-124 Q31778 Toluene 0.04583 0.05 92 57-122 Q31778 mg/kg Trichloroethene 0.04792 0.05 mg/kg 96 59-129 Q31778

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Level II QC Report

04/28/08

N. C. Department of Transportatio Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560		•					COC Group Date/Time \$		G0408357 : 4/11/200	
Matrix Spike Sample ID:	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID	
211341 1,1-Dichloroethene	0.05184	0.05		mg/kg	104	44-14)		Q31778	
Benzene	0.04913	0.05		mg/kg	98	46-130	5		Q31778	
Chlorobenzene	0.04502	0.05		mg/kg	90	47-13	5		Q31778	
Toluene	0.04632	0.05		mg/kg	93	47-13	5		Q31778	
Trichloroethene	0.04572	0.05		mg/kg	91	45-14	t		Q31778	
Matrix Spike Duplicate Sample ID:	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID	
211341 1,1-Dichloroethene	0.04335	0.05		mg/kg	87	44-140) 18	0 - 23	Q31778	
Benzene	0.04512	0.05		mg/kg	90	46-136	39	0 - 22	Q31778	
Chlorobenzene	0.03932	0.05		mg/kg	79	47-13	5 14	0 - 22	Q31778	
Toluene	0.04096	0.05		mg/kg	82	47-136	5 12	0 - 22	Q31778	
Trichloroethene	0.04016	0.05		mg/kg	80	45-14	I 13	0 - 23	Q31778	
Gasoline Range Organics (GRO) by	GC-FID, me	athod 8015	B							
Method Blank									QC Batch	
	Result	RL	Control L	imit Units					ID	
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg					Q31861	
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Balch ID	
Gasoline Range Organics (GRO)	47.8	50		mg/kg	96	67-116	3		Q31861	
Matrix Spike					Recovery	Recovery Ranges		· · · · · · · · · · · · · · · ·	QC Batch	
Sample ID:	Result	Spike Amou	nt	Units	%	%			ID	
211341 Gasoline Range Organics (GRO)	51.7	50		mg/kg	103	57-113	}		Q31861	
Matrix Spike Duplicate					Recovery	Recovery Ranges	RPD	RPD Range	QC Batch	
Sample ID:	Result	Spike Amou	nt	Units	%	10011g05 %	%	%	ID	
211341 Gasoline Range Organics (GRO)	52.3	50		mg/kg	105	57-113	3 1	0 - 23	Q31861	



Level II QC Report

04/28/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number: G0408357
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted: 4/11/200 16:15
c/o URS	Project ID:	NCDOT: Boone - Parcel	
1600 Perimeter Park Dr. Suite 400	Project No.:	28	
Morrisville, NC 27560		WBS# 35015.1.1	

Volatile Organic Compounds by GC/MS, method 8260B

ethod Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	μg/L	Q31876
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q31876
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q31876
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q31876
1,1-Dichloroethane	ND	1	<0.5	µg/L_	Q31876
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q31876
1,1-Dichloropropene	ND	1	<0.5	μg/L	Q31876
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q31876
1,2,3-Trichloropropane	ND	1	<0.5	μg/L	Q31876
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q31876
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q31876
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q31876
1,2-Dibromoethane (EDB)	ND	1	<0.5	μg/L	Q31876
1,2-Dichlorobenzene	ND	1	<0.5	μg/L	Q31876
1,2-Dichloroethane	ND	1	<0.5	µg/L.	Q31876
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q31876
1,3,5-Trimethylbenzene	ND	1	<0.5	μg/L	Q31876
1,3-Dichlorobenzene	ND	1	<0.5	μg/L.	. Q31876
1,3-Dichloropropane	ND	1	<0.5	μg/L	Q31876
1,4-Dichlorobenzene	ND	1	<0.5	μg/L	Q31876
2,2-Dichloropropane	ND	2	<1	µg/L	Q31876
2-Chloroethyl vinyl ether	ND	2	<1	μg/L	Q31876
2-Chlorotoluene	ND	1	<0.5	µg/L.	Q31876
2-Hexanone	ND	5	<2.5	μg/L	Q31876
4-Chlorotoluene	ND	1	<0.5	µg/L	Q31876
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	μg/L	Q31876
Acetone	ND	10	<5	µg/L	Q31876
Acrolein	ND	100	<50	µg/L	Q31876
Acrylonitrile	ND	100	<50	μg/L	Q31876
Benzene	ND	1	<0.5	µg/L	Q31876
Bromobenzene	ND	1	<0.5	µg/L	Q31876
Bromochloromethane	ND	1	<0.5	µg/L	Q31876
Bromodichloromethane	ND	1	<0.5	µg/L	Q31876
Bromoform	ND	1	<0.5	µg/L	Q31876

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Level II QC Report

04/28/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0408357
Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400	Name: Project ID: Project No.:	320 E. King St. NCDOT: Boone - Parcel 28 WBS# 35015.1.1	Date/Time Submitted:	4/11/200 16:15
Morrisville, NC 27560				

Method Blank

od Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	μg/L	Q31876
Carbon disulfide	ND	5	<2.5	µg/L	Q31876
Carbon tetrachloride	ND	2	<1	µg/L	Q31876
Chlorobenzene	ND	1	<0.5	µg/L	Q31876
Chlorodibromomethane	ND	1	<0.5	µg/L	Q31876
Chloroethane	ND	5	<2.5	µg/L	Q31876
Chloroform	ND	1	<0.5	µg/L	Q31876
Chloromethane	ND	2	<1	μg/L	Q31876
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q31876
cis-1,3-Dichloropropene	ND	1	<0.5	μg/L	Q31876
Dibromomethane	ND	1	<0.5	μg/L	Q31876
Dichlorodifluoromethane	ND	2	<1	μg/L	Q31876
Ethylbenzene	ND	1	<0.5	μg/L	Q31876
Hexachlorobutadiene	ND	2	<1	µg/L.	Q31876
Isopropyl ether (IPE)	ND	1	<0.5	μg/L	Q31876
Isopropylbenzene	ND	1	<0.5	µg/L	Q31876
m,p-Xylenes	ND	2	<1	µg/L.	Q31876
Methyl ethyl ketone (MEK)	ND	5	<2.5	hâ\r	Q31876
Methyl t-butyl ether (MTBE)	ND	1	<0.5	μg/L	Q31876
Methylene chloride	ND	2	<1	µg/L	Q31876
n-Butylbenzene	ND	1	<0.5	hð\r	Q31876
n-Propylbenzene	ND	1	<0.5	µg/L	Q31876
Naphthalene	ND	1	<0.5	hð\r	Q31876
o-Xylene	ND	1	<0.5	µg/L	Q31876
p-Isopropyltoluene	ND	1	<0.5	hav	Q31876
sec-Butylbenzene	ND	1	<0.5	µg/L	Q31876
Styrene	ND	1	<0.5	µg/L	Q31876
tert-Butylbenzene	ND	1	<0.5	hðyr	Q31876
Tetrachloroethene	ND	1	<0.5	µg/L	Q31876
Toluene	ND	1	<0.5	µg/L	Q31876
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q31876
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L.	Q31876
Trichloroethene	ND	2	<1	µg/L	Q31876
Trichlorofluoromethane	ND	2	<1	μg/L	Q31876
Vinyl acetate	ND	20	<10	µg/L.	Q31876
Vinyl chloride	ND	2	<1	µg/L.	Q31876

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

Level II QC Report

04/28/08

N. C. Department of Transportation Attn: Martha Meyers-Lee		Project Name:	32	tate Proje 20 E. King	g St.		COC Group Date/Time S		er: G0408357 ed: 4/11/200		
c/o URS		Project IE	~	CDOT: B	oone - Pa	arcel					
1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560		Project N	v	, /BS# 350	15.1.1						
Laboratory Control Sample	Result	Spike Amount	t	Units	Recovery %	Recovery Ranges %			QC Batch ID		
1,1-Dichloroethene	53.48	50		μg/L	107	62-141			Q31876		
Benzene	52.49	50		µg/L	105	70-141	l		Q31876		
Chlorobenzene	50.24	50		µg/L	100	88-120)		Q31876		
Toluene	50.39	50		µg/L	101	78-130)		Q31876		
Trichloroethene	45.86	50		µg/L	92	78-124	L .		Q31876		
Matrix Spike Sample ID:	Result	Spike Amount	t	Units	Recovery %	Recovery Ranges %			QC Batch ID		
211531 1,1-Dichloroethene	223	200		µg/L	112	54-140)		Q31876		
Benzene	210	200		μg/L	105	62-129			Q31876		
Chlorobenzene	196	200		μg/L	98	64-127	,		Q31876		
Toluene	214	200		µg/L	107	60-131			Q31876		
Trichloroethene	194	200		μg/L	90	52-128	3		Q31876		
Matrix Spike Duplicate Sample ID:	Result	Spike Amouni	ł	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID		
211531 1,1-Dichloroethene	229	200		µg/L	115	54-140) 3	0 - 20	Q31876		
Benzene	223	200		μg/L	112	62-129) 6		Q31876		
Chlorobenzene	209	200		μg/L	105	64-127	6		Q31876		
Toluene	227	200		µg/L	114	60-131	6	0 - 21	Q31876		
Trichloroethene	203	200		µg/L	94	52-128	5	0 - 18	Q31876		
Diesel Range Organics (DRO) by GC-I	<u>-ID, meth</u>	od 8015B									
Method Blank	Result	RL	Control Lim	it Units			<u></u>		QC Batch ID		
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	· ·				Q32010		
aboratory Control Sample	Result	Spike Amount	t	Units	Recovery %	Recovery Ranges %			QC Batch ID		
Diesel Range Organics (DRO)	49.4	80		mg/kg	62	55-109)		Q32010		
Matrix Spike Sample ID:	Result	Spike Amount	t	Units	Recovery %	Recovery Ranges %			QC Batch ID		
211341 Diesel Range Organics (DRO)	64.1	80		mg/kg	80	50-117			Q32010		
Matrix Spike Duplicate Sample ID:	Result	Spike Amount	t	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID		
211341 Diesel Range Organics (DRO)	55.7	80		mg/kg	70	50-117	' 14	0 24	Q32010		

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	NO NA			<u> </u>		DERSONNEI	FL NC X			PRISM	LAB ID NO.	311341	લાઝ્મરુ	ત્રાા રમક			MLY - 3 COPIES	PRISM USE ONLY	Site Arrival Time:	Site Departure Time:	Field Tech Fee:			SEE REVERSE FOR TERMS & CONDITIONS	ORIGINAL
LAB USE ONLY	s INTACT upon arrival?	Received ON WET ICE? Temp 2.3	PROPER PRESERVATIVES indicated?	VOLATILES rec'd W/OUT HEADSPACE?	PROPER CONTAINERS used?	to be eil i ed in by ci ient/sampi ing bebsonnei	on: NELAC USACE F	SC OTHER	Water Chlorinated: YESNO χ Sample Iced Upon Collection: YES χ NO		REMARKS						PRESS DOWN FIRMLY - 3 COPIES		Additional Comments: Site A	Site D	Fleid	Mileage:			
ECORD	: 	Receive	<u></u>		PROPE	350151.1	🗆 5 Days			NAL	and and the set of the set of	-	1 1 2				Affiliation URS	Any changes must be ed.	Date 12/1/X Militar/Hours	Date / VN / V	Dath .	WWOL 165	Codes 22	<u> </u> \$°	Ics Analysis (Zero Head
CUSTODY RECORD	QUOTE # TO ENSURE PROPER BILLING: _	: Boon	Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No *Please ATTACH any project specific reporting (QC LEVEL I II II)	BILL : NCDOT		Starty Majert U4020	CIDay C2Days C3Days C4Days	CI 6-9 Days X Brandard 10 days CI Pre-Approved	Damptes received alter 13.00 will be processed riek toughes usy. Turnaround time is based on business days, excluding weekends and holidays. (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES DENDATODIES INC. 70 CLIDITY		PHESEHVA- TIVES	202	1 202 3	4			(M2820	Upon relinquishing, this Chain of Custody is your authorization for Firsm 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.					RY.	RCRA: CERCLA D NC D SC D NC D SC	d Cap VOA = Volatile Organ
CHAIN OF (Project Name: NCO 07 :	Short Hold Analysis: (Ye *Please ATTACH any projection	Invoice To: Dictor Bill	, -	State Project	Requested Due Date 01 Day	"Working Days" D6-9 Day	Turnaround time is based on bus Turnaround time is based on bus BEENERSE FOR TERMS 4	SAMPLE CONTAINER	*TYPE NO. S	G 7 40ml	G 7 How				Sampled Bv (Print Name) Michae	Prism to proceed with the all	(ed By: (Signato)	Received By: (Signature)	Baceived Ex Prism Laboratoribs Bu		Mentor of supplicing the Annual	SOLID WASTE:	= Plastic; TL = Tefton-Line
Ň					2011-400	Fax (res)(No). (9 P) 461-1415			E.King St.	MATRIX	MILITARY WATER OR HOURS SLUDGE)	1035-201	1110 Soil	1130			Mary Sampled Bv	is your authorization for F Aanager. There will be ch	And the second	1/ 1/	c/0/		AND VERIFIED AGAINST COC UN A Sanira Dihar		C = Clear G = Glass P
PRISM		Full Service Analytical & Environmental Solutions	• P.O. Box 240543 • Ch Fax: 704/525-0409 1e:	N N	Feld Ale		il Address	_Excel <u>X_</u> Other Ραιτεί 2 5	al Address: 320		COLLECTED	4-11-08	N-11-08	4-11-08			 Kitalan	is Chain of Custody	1 m	1 1 1 10	w gypas		NOLL: ALL VANIE ACCEPTED AND VER SAMPLES ARE NOT ACCEPTED AND VER D Hand-deliverad	1 m Z	
		Full Servic	449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0409 Client Company Name: <u>URS, Corporad ion</u>	Report To/Contact Name: Meurit	Reporting Address: (<u>600 P(X) wDAle</u> Mr. A. (1 / A) C A 2 2 2 A	Phone (9.11) 461-1100	Ш	EDD Type: PDFE)	Site Location Physical Address: 320		CLIENI SAMPLE DESCRIPTION	128-15-16	PZ8-16-16	T0-2			Sampler's Signature	Upon relinquishing, th submitted in writing to	Relinquished By: (Signature)	Refinequished By (Shinabule)	Point Rue (Signalia)	nomequisitied by, (bigilatorie) Mathed of Octomont: NOTE.	SAMPL SAMPL Geod Ev D LIPS D Ham		П ТУР



Case Narrative

Date: 05/23/08 Company: N. C. Department of Transportation Contact: Martha Meyers-Lee Address: c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s):

NCDOT: Boone - Parcel 28 G0508310 5/6/2008 thru 5/8/2008 05/09/08

Client Project Name Or No: State Project: U-4020/ 320 E. King

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 49 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:	Robbi A. Jones	Project Manager:	Robbi A. Jones
Signature:	Rahli a. Jonen	Signature:	Rothi a. June
Review Date:	05/23/08	Approval Date:	05/23/08

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.

report relate only to the samples submitted for analysis.

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.

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Laboratory Report

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-17-20	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214070	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Droigot No.	20 WBS# 35015.1.1	Time Collected:	05/06/08	14:15
Morrisville, NC 27560	Project No.: Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	73.5	%			1	SM2540 G	05/12/08 15:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.80	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	5.67	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	5.53	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by GC 1,1,1-Trichloroethane	: <u>/MS</u> BRL	mg/kg	0.0059	0.00069	1	8260B	05/14/08 20:01	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00042	1	8260B	05/14/08 20:01		Q32473
1,1,2-Trichloroethane	BRL	mg/kg		0.00062	1	8260B	05/14/08 20:01		Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0059	0.00067	1	8260B	05/14/08 20:01	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0059	0.0010	1	8260B	05/14/08 20:01	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0059	0.00069	1	8260B	05/14/08 20:01	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0059	0.00067	1	8260B	05/14/08 20:01	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0059	0.00079	1	8260B	05/14/08 20:01	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0059	0.00076	1	8260B	05/14/08 20:01	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0059	0.00029	1	8260B	05/14/08 20:01	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0059	0.00073	1	8260B	05/14/08 20:01	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0059	0.00038	1	8260B	05/14/08 20:01	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0059	0.00066	1	8260B	05/14/08 20:01	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0059	0.0014	1	8260B	05/14/08 20:01	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0059	0.00049	1	8260B	05/14/08 20:01	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0059	0.00039	1	8260B	05/14/08 20:01	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0059	0.00025	1	8260B	05/14/08 20:01	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0059	0.00075	1	8260B	05/14/08 20:01	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0059	0.00084	1	8260B	05/14/08 20:01	erussell	Q32473
2-Chiorotoluene	BRL	mg/kg	0.0059	0.00033	1	8260B	05/14/08 20:01	erussell	Q32473

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Laboratory Report

05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-17-20

 Prism Sample ID:
 214070

 COC Group:
 G0508310

 Time Collected:
 05/06/08
 14:15

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.059	0.0051	1	8260B	05/14/08 20:01	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0059	0.00043	1	8260B	05/14/08 20:01	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.059	0.0061	1	8260B	05/14/08 20:01	erussell	Q32473
Acetone	BRL	mg/kg	0.059	0.017	1	8260B	05/14/08 20:01	erussell	Q32473
Benzene	BRL	mg/kg	0.0035	0.00049	1	8260B	05/14/08 20:01	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0059	0.00075	1	8260B	05/14/08 20:01	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0059	0.00048	1	8260B	05/14/08 20:01	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0059	0.00063	1	8260B	05/14/08 20:01	erusseli	Q32473
Bromoform	BRL	mg/kg	0.0059	0.00053	1	8260B	05/14/08 20:01	erussell	Q32473
Bromomethane	BRL	mg/kg	0.012	0.0013	1	8260B	05/14/08 20:01	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0059	0.00039	1	8260B	05/14/08 20:01	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0059	0.0006	1	8260B	05/14/08 20:01	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0059	0.00054	1	8260B	05/14/08 20:01	erussell	Q32473
Chloroethane	BRL	mg/kg	0.012	0.0020	1	8260B	05/14/08 20:01	erussell	Q32473
Chloroform	BRL	mg/kg	0.0059	0.00097	1	8260B	05/14/08 20:01	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0059	0.0014	1	8260B	05/14/08 20:01	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.00094	1	8260B	05/14/08 20:01	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.00077	1	8260B	05/14/08 20:01	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0059	0.0016	1	8260B	05/14/08 20:01	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0059	0.00027	1	8260B	05/14/08 20:01	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0059	0.00054	1	8260B	05/14/08 20:01	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0059	0.00034	1	8260B	05/14/08 20:01	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.012	0.00096	1	8260B	05/14/08 20:01	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.017	1	8260B	05/14/08 20:01	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00049	1	8260B	05/14/08 20:01	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0059	0.00096	1	8260B	05/14/08 20:01	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0059	0.00042	1	8260B	05/14/08 20:01	erussell	Q32473

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Laboratory Report

05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-17-20

 Prism Sample ID:
 214070

 COC Group:
 G0508310

 Time Collected:
 05/06/08
 14:15

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0059	0.00039	1	8260B	05/14/08 20:01	erussell	Q32473
Naphthalene	BRL	mg/kg	0.012	0.0007	1	8260B	05/14/08 20:01	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0059	0.00025	1	8260B	05/14/08 20:01	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0059	0.00047	1	8260B	05/14/08 20:01	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0059	0.0004	1	8260B	05/14/08 20:01	erussell	Q32473
Styrene	BRL	mg/kg	0.0059	0.00066	1	8260B	05/14/08 20:01	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0059	0.00049	1	8260B	05/14/08 20:01	erussell	Q32473
Tetrachloroethene	0.13	mg/kg	0.0059	0.00053	1	8260B	05/14/08 20:01	erusseli	Q32473
Toluene	BRL	mg/kg	0.0059	0.00043	1	8260B	05/14/08 20:01	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.00075	1	8260 B	05/14/08 20:01	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.00069	1	8260B	05/14/08 20:01	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0059	0.00086	1	8260B	05/14/08 20:01	erusseli	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0059	0.0010	1	8260B	05/14/08 20:01	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.029	0.0017	1	8260B	05/14/08 20:01	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0059	0.0010	1	8260B	05/14/08 20:01	erussell	Q32473

						Surrogate		% Red	covery	Co	ntrol Limits
					-	Toluene-d8		100			81 - 128
						Dibromofluc	romethane		106		67 - 143
						Bromofluoro	benzene		116		77 - 128
<u>Diesel Range Organics (DRO) by GC-FID</u> Diesel Range Organics (DRO)	BRL	mg/kg	9.5	1.5		1	8015B	05/14/08	21:15	jvogel	Q32506
Sample Preparation:			25.	02 g	1	1 mL	3545	05/13/08	16:45	wconde	r P21589
						Surrogate		% Ree	covery	Co	ntrol Limits
					-	o-Terphenyl			63		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-17-20	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214070	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/06/08	14:15
Morrisville, NC 27560	Fillect No	VVD3# 33015.1.1	Time Submitted:	05/09/08	14:50
	Sample Matrix:	Soil		00,00,00	1 1100

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	5.67	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.74	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	/ GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	4.3	50	8015B	05/15/08 19:35	wbradley	Q32513

Surrogate	% Recovery	Control Limits
aaa-TFT	10 1	55 - 129

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-18-12	1
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214071	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310)
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/06/08	14:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	77.4	%			1	SM2540 G	05/12/08 15:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	6.17	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	6.03	g			1	5035	05/13/08 0:00	Ibrown	
Weight Methanol	5.69	g			1	5035	05/13/08 0:00	Ibrown	
Volatile Organic Compounds by GC 1,1,1-Trichloroethane	/ <u>MS</u> BRL	mg/kg	0.0052	0.00062	1	8260B	05/14/08 20:33	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0052	0.00038	1	8260B	05/14/08 20:33	erussell	Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.0052	0.00055	1	8260B	05/14/08 20:33	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0052	0.0006	1	8260B	05/14/08 20:33	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0052	0.0009	1	8260B	05/14/08 20:33	erusseli	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0052	0.00062	1	8260B	05/14/08 20:33	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0052	0.0006	1	8260B	05/14/08 20:33	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0052	0.0007	1	8260B	05/14/08 20:33	erusseli	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0052	0.00068	1	8260B	05/14/08 20:33	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0052	0.00026	1	8260B	05/14/08 20:33	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0052	0.00065	1	8260B	05/14/08 20:33	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0052	0.00034	1	8260B	05/14/08 20:33	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0052	0.00059	1	8260B	05/14/08 20:33	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0052	0.0013	1	8260B	05/14/08 20:33	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0052	0.00044	1	8260B	05/14/08 20:33	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0052	0.00035	1	8260B	05/14/08 20:33	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0052	0.00022	1	8260B	05/14/08 20:33	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0052	0.00067	1	8260B	05/14/08 20:33	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0052	0.00075	1	8260B	05/14/08 20:33	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0052	0.00029	1	8260B	05/14/08 20:33	erussell	Q32473

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05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID: P28-18-12 Prism Sample ID: 214071 COC Group: G0508310 Time Collected: 05/06/08 14:50 Time Submitted: 05/09/08 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Analyst Date/Time	Batch ID
2-Hexanone	BRL	mg/kg	0.052	0.0045	1	8260B	05/14/08 20:33 erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0052	0.00039	1	8260B	05/14/08 20:33 erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.052	0.0054	1	8260B	05/14/08 20:33 erussell	Q32473
Acetone	BRL	mg/kg	0.052	0.016	1	8260B	05/14/08 20:33 erussell	Q32473
Benzene	BRL	mg/kg	0.0031	0.00044	1	8260B	05/14/08 20:33 erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0052	0.00067	1	8260B	05/14/08 20:33 erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0052	0.00043	1	8260B	05/14/08 20:33 erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0052	0.00057	1	8260B	05/14/08 20:33 erussell	Q32473
Bromoform	BRL	mg/kg	0.0052	0.00047	1	8260B	05/14/08 20:33 erussell	Q32473
Bromomethane	BRL	mg/kg	0.010	0.0012	1	8260B	05/14/08 20:33 erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0052	0.00035	1	8260B	05/14/08 20:33 erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0052	0.00053	1	8260B	05/14/08 20:33 erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0052	0.00048	1	8260B	05/14/08 20:33 erussell	Q32473
Chloroethane	BRL	mg/kg	0.010	0.0018	1	8260B	05/14/08 20:33 erussell	Q32473
Chloroform	BRL	mg/kg	0.0052	0.00087	1	8260B	05/14/08 20:33 erussell	Q32473
Chloromethane	BRL	mg/kg	0.0052	0.0013	1	8260B	05/14/08 20:33 erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00084	1	8260B	05/14/08 20:33 erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.00069	1	8260B	05/14/08 20:33 erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0052	0.0014	1	8260B	05/14/08 20:33 erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0052	0.00024	1	8260B	05/14/08 20:33 erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0052	0.00048	1	8260B	05/14/08 20:33 erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0052	0.0003	1	8260B	05/14/08 20:33 erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.010	0.00086	1	8260B	05/14/08 20:33 erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.10	0.015	1	8260B	05/14/08 20:33 erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.010	0.00044	1	8260B	05/14/08 20:33 erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0052	0.00086	1	8260B	05/14/08 20:33 erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0052	0.00038	1	8260B	05/14/08 20:33 erussell	Q32473

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05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

)/	Client Sample ID:	P28-18-12	
	Prism Sample ID:	214071	
cel	COC Group:	G0508310	
	Time Collected:	05/06/08	14:50
	Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0052	0.00035	1	8260B	05/14/08 20:33	erusseli	Q32473
Naphthalene	BRI.	mg/kg	0.010	0.00063	1	8260B	05/14/08 20:33	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0052	0.00022	1	8260B	05/14/08 20:33	erussell	Q32473
p-Isopropyitoluene	BRL	mg/kg	0.0052	0.00042	1	8260B	05/14/08 20:33	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0052	0.00036	1	8260B	05/14/08 20:33	erussell	Q32473
Styrene	BRL	mg/kg	0.0052	0.00059	1	8260B	05/14/08 20:33	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0052	0.00044	1	8260B	05/14/08 20:33	erussell	Q32473
Tetrachloroethene	BRL	mg/kg	0.0052	0.00047	1	8260B	05/14/08 20:33	erusseli	Q32473
Toluene	BRL	mg/kg	0.0052	0.00039	1	8260B	05/14/08 20:33	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00067	1	8260B	05/14/08 20:33	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.00062	1	8260B	05/14/08 20:33	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0052	0.00076	1	8260B	05/14/08 20:33	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0052	0.00093	1	8260B	05/14/08 20:33	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.026	0.0015	1	8260B	05/14/08 20:33	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0052	0.00091	1	8260B	05/14/08 20:33	erussell	Q32473

					Surrogate		% Recovery		or Cor	Control Limits	
						Toluene-d8			10 9		81 - 128
						Dibromofluc	promethane		105		67 - 143
						Bromofluor	benzene		112		77 - 128
<u>Diesel Range Organics (DRO) by GC-FID</u> Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5		1	8015B	05/16/08	6:29	jvogel	Q32561
Sample Preparation:				25 g	1	1 mL	3545	05/14/08	17:40	wconder	P21598
						Surrogate		% Re	covery	con	trol Limits
						o-Terpheny			66		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-18-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214071	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/06/08	14:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination								· ·	· · ·
Weight 1	4.96	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.65	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	<u>y GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.0	50	8015B	05/15/08 20:06	wbradley	Q32513

% Recovery Contro	ogate %
68 55	FT
	· · · · · · ·

Sample Comment(s):

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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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-19-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214072	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	05/06/08	16:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	86.3	%			1	SM2540 G	05/12/08 15:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	5.12	g			1	5035	05/13/08 0:00	Ibrown	
Weight Bisulfate 2	4.78	g			1	5035	05/13/08 0:00	Ibrown	
Weight Methanol	5.14	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>SC/MS</u> BRL	mg/kg	0.0061	0.00072	1	8260B	05/14/08 21:04	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00044	1	8260B	05/14/08 21:04		Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.0061	0.00064	1	8260B	05/14/08 21:04		Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0061	0.00069	1	8260B	05/14/08 21:04	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0061	0.0010	1	8260B	05/14/08 21:04	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0061	0.00072	1	8260B	05/14/08 21:04	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0061	0.00069	1	8260B	05/14/08 21:04	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0061	0.00081	1	8260B	05/14/08 21:04	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0061	0.00079	1	8260B	05/14/08 21:04	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0061	0.0003	1	8260B	05/14/08 21:04	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0061	0.00075	1	8260B	05/14/08 21:04	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0061	0.00039	1	8260B	05/14/08 21:04	erusseli	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0061	0.00068	1	8260B	05/14/08 21:04	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0061	0.0015	1	8260B	05/14/08 21:04	erussell	Q32473
1,3,5-Trimethylbenzene	0.0044 J	mg/kg	0.0061	0.00051	1	8260B	05/14/08 21:04	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0061	0.0004	1	8260B	05/14/08 21:04	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0061	0.00025	1	8260B	05/14/08 21:04	erusseli	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0061	0.00078	1	8260B	05/14/08 21:04	erusseli	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0061	0.00087	1	8260B	05/14/08 21:04	erusseli	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0061	0.00034	1	8260B	05/14/08 21:04	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 U-4020/
 Client Sample ID:
 P28-19-6

 St.
 Prism Sample ID:
 214072

 ne - Parcel
 COC Group:
 G0508310

 Time Collected:
 05/06/08
 16:40

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.061	0.0052	1	8260B	05/14/08 21:04	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0061	0.00045	1	8260B	05/14/08 21:04	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.061	0.0063	1	8260B	05/14/08 21:04	erussell	Q32473
Acetone	5.7	mg/kg	4.6	3.5	500	8260B	05/15/08 12:55	erussell	Q32473
Benzene	BRL	mg/kg	0.0036	0.00051	1	8260B	05/14/08 21:04	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0061	0.00078	1	8260B	05/14/08 21:04	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0061	0.0005	1	8260B	05/14/08 21:04	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0061	0.00065	1	8260B	05/14/08 21:04	erussell	Q32473
Bromoform	BRL	mg/kg	0.0061	0.00055	1	8260B	05/14/08 21:04	erussell	Q32473
Bromomethane	BRL	mg/kg	0.012	0.0014	1	8260B	05/14/08 21:04	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0061	0.0004	1	8260B	05/14/08 21:04	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0061	0.00062	1	8260B	05/14/08 21:04	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0061	0.00056	1	8260B	05/14/08 21:04	erussell	Q32473
Chloroethane	BRL	mg/kg	0.012	0.0020	1	8260B	05/14/08 21:04	erussell	Q32473
Chloroform	BRL	mg/kg	0.0061	0.0010	1	8260B	05/14/08 21:04	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0061	0.0015	1	8260B	05/14/08 21:04	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0061	0.00097	1	8260B	05/14/08 21:04	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0061	0.0008	1	8260B	05/14/08 21:04	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0061	0.0017	1	8260B	05/14/08 21:04	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0061	0.00028	1	8260B	05/14/08 21:04	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0061	0.00056	1	8260B	05/14/08 21:04	erussell	Q32473
lsopropylbenzene	BRL	mg/kg	0.0061	0.00035	1	8260B	05/14/08 21:04	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.012	0.00099	1	8260B	05/14/08 21:04	erusseli	Q32473
Methyl ethyl ketone (MEK)	0.15	mg/kg	0.12	0.018	1	8260B	05/14/08 21:04	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00051	1	8260B	05/14/08 21:04	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0061	0.00099	1	8260B	05/14/08 21:04	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0061	0.00044	1	8260B	05/14/08 21:04	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 4020/
 Client Sample ID:
 P28-19-6

 Prism Sample ID:
 214072

 Parcel
 COC Group:
 G0508310

 Time Collected:
 05/06/08
 16:40

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0061	0.0004	1	8260B	05/14/08 21:04	erussell	Q32473
Naphthalene	BRL	mg/kg	0.012	0.00073	1	8260B	05/14/08 21:04	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0061	0.00025	1	8260B	05/14/08 21:04	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0061	0.00048	1	8260B	05/14/08 21:04	erusseil	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0061	0.00041	1	8260B	05/14/08 21:04	erussell	Q32473
Styrene	BRL	mg/kg	0.0061	0.00068	1	8260B	05/14/08 21:04	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0061	0.00051	1	8260B	05/14/08 21:04	erussell	Q32473
Tetrachloroethene	34	mg/kg	2.8	0.25	500	8260B	05/15/08 12:55	erussell	Q32473
Toluene	BRL	mg/kg	0.0061	0.00045	1	8260B	05/14/08 21:04	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0061	0.00078	1	8260B	05/14/08 21:04	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0061	0.00072	1	8260B	05/14/08 21:04	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0061	0.00088	1	8260B	05/14/08 21:04	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0061	0.0011	1	8260B	05/14/08 21:04	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.030	0.0017	1	8260B	05/14/08 21:04	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0061	0.0011	1	8260B	05/14/08 21:04	erussell	Q32473

One surrogate recovery was outside of the control limits. Matrix interference is suspected.

					Surrogate		% Re	covery	Co	ntrol Limits
					Toluene-d8			88		81 - 128
					Dibromofluc	promethane		106		67 - 143
					Bromofluoro	benzene		245 #		77 - 128
470	mg/kg	41	6.5		5	8015B	05/15/08	12:27 j	vogel	Q32506
		2	25.3 g	1	1 mL	3545	05/13/08	16:45	wconder	P21589
					Surrogate		% Re	covery	Co	ntrol Limits
					o-Terphenyl			68		49 - 124
	470	470 mg/kg			25.3 g /	Toluene-d8 Dibromofluor 470 mg/kg 41 6.5 5 25.3 g / 1 mL Surrogate	Toluene-d8 Dibromofluoromethane Bromofluorobenzene 470 mg/kg 41 6.5 5 8015B 25.3 g / 1 mL 3545	Toluene-d8 Dibromofluoromethane Bromofluorobenzene 470 mg/kg 41 6.5 5 8015B 05/15/08 25.3 g / 1 mL 3545 05/13/08 Surrogate % Re	Toluene-d8 88 Dibromofluoromethane 106 Bromofluorobenzene 245 # 470 mg/kg 41 6.5 5 8015B 05/15/08 12:27 j 25.3 g / 1 mL 3545 05/13/08 16:45 Surrogate % Recovery	Toluene-d8 88 Dibromofluoromethane 106 Bromofluorobenzene 245 # 470 mg/kg 41 6.5 5 8015B 05/15/08 12:27 jvogel 25.3 g / 1 mL 3545 05/13/08 16:45 wconder Surrogate % Recovery Control

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-19-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214072	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	05/06/08	16:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination							·····		
Weight 1	5.03	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.00	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	100	mg/kg	5.8	3.6	50	8015B	05/15/08 20:38		Q32513

gate
=T

Sample Comment(s):

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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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-20-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214073	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	WBS# 35015.1.1	Time Collected:	05/06/08	16:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	85.2	%			1	SM2540 G	05/12/08 15:15	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.65	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	3.96	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	4.04	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>C/MS</u> BRL	mg/kg	0.0063	0.00074	1	8260B	05/14/08 21:36	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0063	0.00045	1	8260B	05/14/08 21:36	erussell	Q32473
1,1,2-Trichloroethane	BRL.	mg/kg	0.0063	0.00067	1	8260B	05/14/08 21:36	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0063	0.00072	1	8260B	05/14/08 21:36	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0063	0.0011	1	8260B	05/14/08 21:36	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0063	0.00074	1	8260B	05/14/08 21:36	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0063	0.00072	1	8260B	05/14/08 21:36	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0063	0.00085	1	8260B	05/14/08 21:36	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0063	0.00082	1	8260B	05/14/08 21:36	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0063	0.00032	1	8260B	05/14/08 21:36	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0063	0.00078	1	8260B	05/14/08 21:36	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0063	0.0004	1	8260B	05/14/08 21:36	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0063	0.00071	1	8260B	05/14/08 21:36	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0063	0.0015	1	8260B	05/14/08 21:36	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	05/14/08 21:36	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0063	0.00042	1	8260B	05/14/08 21:36	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0063	0.00027	1	8260B	05/14/08 21:36	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	05/14/08 21:36	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0063	0.00091	1	8260B	05/14/08 21:36	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0063	0.00035	1	8260B	05/14/08 21:36	erussell	Q32473

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Laboratory Report

05/23/08

16:50

14:50

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name: State Project: U-320 E. King St. Project ID: NCDOT: Boone -28 Project No.: WBS# 35015.1.1 Sample Matrix: Soil

 State Project: U-4020/
 Client Sample ID:
 P28-20-2

 320 E. King St.
 Prism Sample ID:
 214073

 NCDOT: Boone - Parcel
 COC Group:
 G0508310

 28
 Time Collected:
 05/06/08

 WBS# 35015.1.1
 Time Submitted:
 05/09/08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.063	0.0054	1	8260B	05/14/08 21:36	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0063	0.00047	1	8260B	05/14/08 21:36	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.063	0.0066	1	8260B	05/14/08 21:36	erussell	Q32473
Acetone	0.25	mg/kg	0.063	0.019	1	8260B	05/14/08 21:36	erussell	Q32473
Benzene	BRL	mg/kg	0.0038	0.00053	1	8260B	05/14/08 21:36	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0063	0.00081	1	8260B	05/14/08 21:36	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0063	0.00052	1	8260B	05/14/08 21:36	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0063	0.00068	1	8260B	05/14/08 21:36	erussell	Q32473
Bromoform	BRL	mg/kg	0.0063	0.00057	1	8260B	05/14/08 21:36	erusselt	Q32473
Bromomethane	BRL	mg/kg	0.013	0.0014	1	8260B	05/14/08 21:36	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0063	0.00042	1	8260B	05/14/08 21:36	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0063	0.00064	1	8260B	05/14/08 21:36	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0063	0.00058	1	8260B	05/14/08 21:36	erussell	Q32473
Chloroethane	BRL	mg/kg	0.013	0.0021	1	8260B	05/14/08 21:36	erussell	Q32473
Chloroform	BRL	mg/kg	0.0063	0.0010	1	8260B	05/14/08 21:36	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0063	0.0015	1	8260B	05/14/08 21:36	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.0010	1	8260B	05/14/08 21:36	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00083	1	8260B	05/14/08 21:36	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0063	0.0017	1	8260B	05/14/08 21:36	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0063	0.00029	1	8260B	05/14/08 21:36	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0063	0.00058	1	8260B	05/14/08 21:36	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0063	0.00037	1	8260B	05/14/08 21:36	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.013	0.0010	1	8260B	05/14/08 21:36	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.019	1	8260B	05/14/08 21:36	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00053	1	8260B	05/14/08 21:36	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0063	0.0010	1	8260B	05/14/08 21:36	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0063	0.00045	1	8260B	05/14/08 21:36	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-20-2

 Prism Sample ID:
 214073

 COC Group:
 G0508310

 Time Collected:
 05/06/08
 16:50

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0063	0.00042	1	8260B	05/14/08 21:36	erussell	Q32473
Naphthalene	BRL	mg/kg	0.013	0.00076	1	8260B	05/14/08 21:36	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0063	0.00027	1	8260B	05/14/08 21:36	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0063	0.0005	1	8260B	05/14/08 21:36	erusseli	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0063	0.00043	1	8260B	05/14/08 21:36	erussell	Q32473
Styrene	BRL	mg/kg	0.0063	0.00071	1	8260B	05/14/08 21:36	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0063	0.00053	1	8260B	05/14/08 21:36	erussell	Q32473
Tetrachloroethene	4.0	mg/kg	0.36	0.033	50	8260B	05/15/08 10:21	erussell	Q32473
Toluene	BRL	mg/kg	0.0063	0.00047	1	8260B	05/14/08 21:36	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0063	0.00081	1	8260B	05/14/08 21:36	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0063	0.00074	1	8260B	05/14/08 21:36	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0063	0.00092	1	8260B	05/14/08 21:36	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0063	0.0011	1	8260B	05/14/08 21:36	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.032	0.0018	1	8260B	05/14/08 21:36	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0063	0.0011	1	8260B	05/14/08 21:36	erussell	Q32473

						Surrogate		% Red	covery	Co	ntrol Limits
					-	Toluene-d8			100		81 - 128
					[Dibromofluc	promethane		100		67 - 143
					I	Bromofluor	benzene		93		77 - 128
Diesel Range Organics (DRO) by GC-F Diesel Range Organics (DRO)	<u>ID</u> BRL	mg/kg	8.1	1.3		1	8015B	05/15/08	10:39	jvogel	Q32506
Sample Preparation:			25.4	1 2 g	1	1 mL	3545	05/13/08	16:45	wconder	P21589
						Surrogate		% Ree	covery	Co	ntrol Limits
					(o-Terpheny	I		65		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-20-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214073	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/06/08	16:50
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.50	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.46	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	<u>r GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015 B	05/15/08 21:09	wbradley	Q32513

Surrogate	% Recovery	Control Limits
aaa-TFT	68	55 - 129

Sample Comment(s):

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-21-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214074	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Droigof Ma		Time Collected:	05/07/08	17:00
Morrisville, NC 27560	Project No.: Sample Matrix:	WBS# 35015.1.1 Soil	Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	84.0	%			1	SM2540 G	05/14/08 15:52	nhansson	
Sample Weight Determination Weight Bisulfate 1	4.40	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	4.39	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	4.00	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by Ge			0.0068	0.0008	4	82600	05/44/00 00:07	origoall	000470
1,1,1-Trichloroethane	BRL	mg/kg		0.0008	1	8260B	05/14/08 22:07		Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg		0.00049	1	8260B 8260B	05/14/08 22:07		Q32473 Q32473
1,1,2-Trichloroethane 1,1-Dichloroethane	BRL BRL	mg/kg		0.00072	1	8260B	05/14/08 22:07		Q32473
1,1-Dichloroethene	BRL	mg/kg mg/kg		0.0012	, 1	8260B	05/14/08 22:07		Q32473
1,1-Dichloropropene	BRL	mg/kg		0.0008	1	8260B	05/14/08 22:07		Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg		0.00077	1	8260B	05/14/08 22:07		Q32473
1,2,3-Trichloropropane	BRL	mg/kg		0.00091	1	8260B	05/14/08 22:07		Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg		0.00088	1	8260B	05/14/08 22:07		Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg		0.00034	1	8260B	05/14/08 22:07		Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg		0.00084	1	8260B	05/14/08 22:07		Q32473
1,2-Dichlorobenzene	BRL	mg/kg		0.00043	1	8260B	05/14/08 22:07	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg		0.00076	1	8260B	05/14/08 22:07	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg		0.0016	1	8260B	05/14/08 22:07	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg		0.00057	1	8260B	05/14/08 22:07	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg		0.00045	1	8260B	05/14/08 22:07	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg		0.00028	1	8260B	05/14/08 22:07	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 22:07	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg		0.00097	1	8260B	05/14/08 22:07	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg		0.00038	1	8260B	05/14/08 22:07	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-21-2	
Prism Sample ID:	214074	
COC Group:	G0508310	
Time Collected:	05/07/08	17:00
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.068	0.0058	1	8260B	05/14/08 22:07	erussell	Q32473
4-Chiorotoluene	BRL	mg/kg	0.0068	0.0005	1	8260B	05/14/08 22:07	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.068	0.0070	1	8260B	05/14/08 22:07	erusseli	Q32473
Acetone	0.27	mg/kg	0.068	0.020	1	8260B	05/14/08 22:07	erussell	Q32473
Benzene	BRL	mg/kg	0.0041	0.00057	1	8260B	05/14/08 22:07	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 22:07	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0068	0.00055	1	8260B	05/14/08 22:07	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0068	0.00073	1	8260B	05/14/08 22:07	erussell	Q32473
Bromoform	BRL	mg/kg	0.0068	0.00061	1	8260B	05/14/08 22:07	erussell	Q32473
Bromomethane	BRL	mg/kg	0.014	0.0015	1	8260B	05/14/08 22:07	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0068	0.00045	1	8260B	05/14/08 22:07	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0068	0.00069	1	8260B	05/14/08 22:07	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0068	0.00062	1	8260B	05/14/08 22:07	erussell	Q32473
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	05/14/08 22:07	erussell	Q32473
Chloroform	BRL	mg/kg	0.0068	0.0011	1	8260B	05/14/08 22:07	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0068	0.0016	1	8260B	05/14/08 22:07	erusseli	Q32473
cis-1,2-Dichloroethene	BRL.	mg/kg	0.0068	0.0011	1	8260B	05/14/08 22:07	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.00089	1	8260B	05/14/08 22:07	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	, 0.0068	0.0019	1	8260B	05/14/08 22:07	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0068	0.00031	1	8260B	05/14/08 22:07	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0068	0.00062	1	8260B	05/14/08 22:07	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0068	0.00039	1	8260B	05/14/08 22:07	erusseli	Q32473
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	05/14/08 22:07	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.020	1	8260B	05/14/08 22:07	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00057	1	8260B	05/14/08 22:07	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0068	0.0011	1	8260B	05/14/08 22:07	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0068	0.00049	1	8260B	05/14/08 22:07	erusseli	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-21-2	
Prism Sample ID:	214074	
COC Group:	G0508310	
Time Collected:	05/07/08	17:00
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0068	0.00045	1	8260B	05/14/08 22:07	erussell	Q32473
Naphthalene	BRL	mg/kg	0.014	0.00081	1	8260B	05/14/08 22:07	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0068	0.00028	1	8260B	05/14/08 22:07	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0068	0.00054	1	8260B	05/14/08 22:07	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0068	0.00046	1	8260B	05/14/08 22:07	erussell	Q32473
Styrene	BRL	mg/kg	0.0068	0.00076	1	8260B	05/14/08 22:07	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0068	0.00057	1	8260B	05/14/08 22:07	erussell	Q32473
Tetrachloroethene	1.8	mg/kg	0.37	0.033	50	8260B	05/15/08 11:00	erussell	Q32473
Toluene	BRL	mg/kg	0.0068	0.0005	1	8260B	05/14/08 22:07	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 22:07	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.0008	1	8260B	05/14/08 22:07	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0068	0.00099	1	8260B	05/14/08 22:07	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0068	0.0012	1	8260B	05/14/08 22:07	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.034	0.0019	1	8260B	05/14/08 22:07	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0068	0.0012	1	8260B	05/14/08 22:07	erussell	Q32473

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

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05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project Name: Project ID: Project No.: Sample Matrix:	State Project: U-4020/ 320 E. King St. NCDOT: Boone - Parcel 28 WBS# 35015.1.1 Soil	Client Sample ID: Prism Sample ID: COC Group: Time Collected: Time Submitted:	17:00 14:50	

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
IN 1970 V. I. V.				·····					

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-22-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214075	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	05/08/08	9:35
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	81.4	%			1	SM2540 G	05/14/08 15:52	nhansson	_
Sample Weight Determination Weight Bisulfate 1	4.44	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	4.41	ġ			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	3.14	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by GC, 1,1,1-Trichloroethane	/ <u>MS</u> BRL	mg/kg	0.0069	0.00082	1	8260B	05/14/08 22:38	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0069	0.0005	1	8260B	05/14/08 22:38	erusseli	Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.0069	0.00073	1	8260B	05/14/08 22:38	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0069	0.00079	1	8260B	05/14/08 22:38	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0069	0.0012	1	8260B	05/14/08 22:38	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0069	0.00082	1	8260B	05/14/08 22:38	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0069	0.00079	1	8260B	05/14/08 22:38	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0069	0.00093	1	8260B	05/14/08 22:38	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0069	0.0009	1	8260B	05/14/08 22:38	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0069	0.00035	1	8260B	05/14/08 22:38	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0069	0.00086	1	8260B	05/14/08 22:38	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0069	0.00044	1	8260B	05/14/08 22:38	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0069	0.00077	1	8260B	05/14/08 22:38	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0069	0.0017	1	8260B	05/14/08 22:38	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0069	0.00058	1	8260B	05/14/08 22:38	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0069	0.00046	1	8260B	05/14/08 22:38	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0069	0.00029	1	8260B	05/14/08 22:38	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0069	0.00089	1	8260B	05/14/08 22:38	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0069	0.0010	1	8260B	05/14/08 22:38	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0069	0.00039	1	8260B	05/14/08 22:38	erussell	Q32473

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Laboratory Report

05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-22-6

 Prism Sample ID:
 214075

 COC Group:
 G0508310

 Time Collected:
 05/08/08
 9:35

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.069	0.0060	1	8260B	05/14/08 22:38	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0069	0.00051	1	8260B	05/14/08 22:38	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.069	0.0072	1	8260B	05/14/08 22:38	erussell	Q32473
Acetone	BRL	mg/kg	0.069	0.021	1	8260B	05/14/08 22:38	erussell	Q32473
Benzene	BRL	mg/kg	0.0042	0.00058	1	8260B	05/14/08 22:38	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0069	0.00089	1	8260B	05/14/08 22:38	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0069	0.00057	1	8260B	05/14/08 22:38	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0069	0.00075	1	8260B	05/14/08 22:38	erussell	Q32473
Bromoform	BRL	mg/kg	0.0069	0.00062	1	8260B	05/14/08 22:38	erussell	Q32473
Bromomethane	BRL	mg/kg	0.014	0.0015	1	8260B	05/14/08 22:38	erusseli	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0069	0.00046	1	8260B	05/14/08 22:38	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0069	0.00071	1	8260B	05/14/08 22:38	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0069	0.00064	1	8260B	05/14/08 22:38	erussell	Q32473
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	05/14/08 22:38	erussell	Q32473
Chloroform	BRL	mg/kg	0.0069	0.0011	1	8260B	05/14/08 22:38	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0069	0.0017	1	8260B	05/14/08 22:38	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0069	0.0011	1	8260B	05/14/08 22:38	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0069	0.00091	1	8260B	05/14/08 22:38	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0069	0.0019	1	8260B	05/14/08 22:38	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0069	0.00032	1	8260B	05/14/08 22:38	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0069	0.00064	1	8260B	05/14/08 22:38	erusseli	Q32473
Isopropylbenzene	BRL	mg/kg	0.0069	0.0004	1	8260B	05/14/08 22:38	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	05/14/08 22:38	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.020	1	8260B	05/14/08 22:38	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00058	1	8260B	05/14/08 22:38	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0069	0.0011	1	8260B	05/14/08 22:38	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0069	0.0005	1	8260B	05/14/08 22:38	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

20/ Client Sample ID: P28-22-6 Prism Sample ID: 214075 COC Group: G0508310 Time Collected: 05/08/08 9:35 Time Submitted: 05/09/08 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0069	0.00046	1	8260B	05/14/08 22:38	erussell	Q32473
Naphthalene	BRL	mg/kg	0.014	0.00083	1	8260B	05/14/08 22:38	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0069	0.00029	1	8260B	05/14/08 22:38	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0069	0.00055	1	8260B	05/14/08 22:38	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0069	0.00047	1	8260B	05/14/08 22:38	erussell	Q32473
Styrene	BRL	mg/kg	0.0069	0.00077	1	8260B	05/14/08 22:38	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0069	0.00058	1	8260B	05/14/08 22:38	erusseli	Q32473
Tetrachloroethene	BRL	mg/kg	0.0069	0.00062	1	8260B	05/14/08 22:38	erussell	Q32473
Toluene	BRL	mg/kg	0.0069	0.00051	1	8260B	05/14/08 22:38	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0069	0.00089	1	8260B	05/14/08 22:38	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0069	0.00082	1	8260B	05/14/08 22:38	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0069	0.0010	1	8260B	05/14/08 22:38	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0069	0.0012	1	8260B	05/14/08 22:38	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.035	0.0020	1	8260B	05/14/08 22:38	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0069	0.0012	1	8260B	05/14/08 22:38	erussell	Q32473

					S	urrogate		% Re	covery	Cont	rol Limits
					т	oluene-d8			104	1	81 - 128
					D	ibromofluc	promethane		99		67 - 143
					В	romofluoro	benzene		100		77 - 128
Diesel Range Organics (DRO) by GC-FI Diesel Range Organics (DRO)	D BRL	mg/kg	8.6	1.4		1	8015B	05/14/08	23:03 j	vogel	Q32506
Sample Preparation:			25	5.1 g	1	1 mL	3545	05/13/08	16:45	wconder	P21589
					S	urrogate		% Re	covery	Cont	rol Limits
						-Terpheny	I		64		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-22-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214075	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	9:35
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.76	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.44	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	05/15/08 21:41	wbradley	Q32513

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

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-23-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214076	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Droject No.	20 WBS# 35015.1.1	Time Collected:	05/08/08	9:45
Morrisville, NC 27560	Project No.:		Time Submitted:	05/09/08	14:50
	Sample Matrix:	301			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	84.4	%			1	SM2540 G	05/15/08 16:00	mbarber	· · · ·
Sample Weight Determination Weight Bisulfate 1	4.37	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	4.40	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	4.24	9			1	5035	05/13/08 0:00	ibrown	
Volatile Organic Compounds by G			0 0069	0.0008	1	8260B	05/14/08 23:10	onissoli	Q32473
1,1,1-Trichloroethane	BRL	mg/kg		0.00049	1	8260B	05/14/08 23:10		Q32473
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	BRL BRL	mg/kg mg/kg		0.00072	1	8260B	05/14/08 23:10		Q32473
1,1-Dichloroethane	BRL	mg/kg		0.00077	1	8260B	05/14/08 23:10		Q32473
1,1-Dichloroethene	BRL	mg/kg		0.0012	1	8260B	05/14/08 23:10		Q32473
1,1-Dichloropropene	BRL	mg/kg		0.0008	1	8260B	05/14/08 23:10		Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg		0.00077	1	8260B	05/14/08 23:10		Q32473
1,2,3-Trichloropropane	BRL	mg/kg		0.00091	1	8260B	05/14/08 23:10	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0068	0.00088	1	8260B	05/14/08 23:10	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0068	0.00034	1	8260B	05/14/08 23:10	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0068	0.00084	1	8260B	05/14/08 23:10	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0068	0.00043	1	8260B	05/14/08 23:10	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0068	0.00076	1	8260B	05/14/08 23:10	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0068	0.0016	1	8260B	05/14/08 23:10	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0068	0.00057	1	8260B	05/14/08 23:10	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0068	0.00045	1	8260 B	05/14/08 23:10	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0068	0.00028	1	8260B	05/14/08 23:10	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 23:10	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0068	0.00098	1	8260B	05/14/08 23:10	erussell	Q32473
2-Chiorotoluene	BRL	mg/kg	0.0068	0.00038	1	8260B	05/14/08 23:10	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-23-6	
Prism Sample ID:	214076	
COC Group:	G0508310	
Time Collected:	05/08/08	9:45
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.068	0.0058	1	8260B	05/14/08 23:10	erusseli	Q32473
4-Chlorotoluene	BRL.	mg/kg	0.0068	0.0005	1	8260B	05/14/08 23:10	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.068	0.0070	1	8260B	05/14/08 23:10	erussell	Q32473
Acetone	BRL	mg/kg	0.068	0.020	1	8260B	05/14/08 23:10	erussell	Q32473
Benzene	BRL	mg/kg	0.0041	0.00057	1	8260B	05/14/08 23:10	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 23:10	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0068	0.00056	1	8260B	05/14/08 23:10	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0068	0.00073	1	8260B	05/14/08 23:10	erussell	Q32473
Bromoform	BRL	mg/kg	0.0068	0.00061	1	8260B	05/14/08 23:10	erussell	Q32473
Bromomethane	BRL	mg/kg	0.014	0.0015	1	8260B	05/14/08 23:10	erusseli	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0068	0.00045	1	8260B	05/14/08 23:10	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0068	0.00069	1	8260B	05/14/08 23:10	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0068	0.00062	1	8260B	05/14/08 23:10	erussell	Q32473
Chloroethane	BRL	mg/kg	0.014	0.0023	1	8260B	05/14/08 23:10	erussell	Q32473
Chloroform	BRL	mg/kg	0.0068	0.0011	1	8260B	05/14/08 23:10	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0068	0.0016	1	8260B	05/14/08 23:10	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0068	0.0011	1	8260B	05/14/08 23:10	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.00089	1	8260B	05/14/08 23:10	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0068	0.0019	1	8260B	05/14/08 23:10	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0068	0.00031	1	8260B	05/14/08 23:10	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0068	0.00062	1	8260B	05/14/08 23:10	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0068	0.00039	1	8260B	05/14/08 23:10	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	05/14/08 23:10	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.020	1	8260B	05/14/08 23:10	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00057	1	8260B	05/14/08 23:10	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0068	0.0011	1	8260B	05/14/08 23:10	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0068	0.00049	1	8260B	05/14/08 23:10	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-23-6

 Prism Sample ID:
 214076

 COC Group:
 G0508310

 Time Collected:
 05/08/08
 9:45

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0068	0.00045	1	8260B	05/14/08 23:10	erussell	Q32473
Naphthalene	BRL	mg/kg	0.014	0.00081	1	8260B	05/14/08 23:10	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0068	0.00028	1	8260B	05/14/08 23:10	erussell	Q32473
p-Isopropyitoluene	BRL	mg/kg	0.0068	0.00054	1	8260B	05/14/08 23:10	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0068	0.00046	1	8260B	05/14/08 23:10	erussell	Q32473
Styrene	BRL	mg/kg	0.0068	0.00076	1	8260B	05/14/08 23:10	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0068	0.00057	1	8260B	05/14/08 23:10	erussell	Q32473
Tetrachloroethene	BRL	mg/kg	0.0068	0.00061	1	8260B	05/14/08 23:10	erussell	Q32473
Toluene	BRL	mg/kg	0.0068	0.0005	1	8260B	05/14/08 23:10	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0068	0.00087	1	8260B	05/14/08 23:10	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0068	0.0008	1	8260B	05/14/08 23:10	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0068	0.00099	1	8260B	05/14/08 23:10	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0068	0.0012	1	8260B	05/14/08 23:10	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.034	0.0019	1	8260B	05/14/08 23:10	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0068	0.0012	1	8260B	05/14/08 23:10	erussell	Q32473

					Ş	Surrogate		% Ree	covery	Cor	itrol Limits
					-	Toluene-d8			102		81 - 128
					I	Dibromofluc	promethane		102		67 - 143
					1	Bromofluoro	obenzene		103		77 - 128
Diesel Range Organics (DRO) by GC- Diesel Range Organics (DRO)	FID BRL	mg/kg	8.3	1.3		1	8015B	05/14/08	23:39	jvogel	Q32506
Sample Preparation:			25.04	4 g	1	1 mL	3545	05/13/08	16:45	wconder	P21589
					;	Surrogate		% Re	covery	Cor	ntrol Limits
					(o-Terpheny	1		53		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-23-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214076	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	9:45
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	4.49	g			1	GRO	05/13/08 0:00	ibrown	
Weight 2	4.46	g			1	GRO	05/13/08 0:00	Ibrown	
Gasoline Range Organics (GRO) by	/ GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015B	05/15/08 22:12	wbradley	Q32513

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

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-24-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214077	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Drainat Max		Time Collected:	05/08/08	9:55
Morrisville, NC 27560	Project No.: Sample Matrix:	WBS# 35015.1.1	Time Submitted:	05/09/08	14:50
	Sample Matrix.	504			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	82.9	%			1	SM2540 G	05/15/08 16:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.62	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	4.32	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	4.51	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by G			0.0065	0 00077	4	8260B	05/14/08 23:42	erussell	Q32473
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	BRL BRL	mg/kg mg/kg		0.00077	1 1	8260B	05/14/08 23:42		Q32473
1,1,2-Trichloroethane	BRL	mg/kg		0.00069	1	8260B	05/14/08 23:42		Q32473
1,1-Dichloroethane	BRL	mg/kg		0.00074	1	8260B	05/14/08 23:42		Q32473
1,1-Dichloroethene	BRL	mg/kg		0.0011	1	8260B	05/14/08 23:42		Q32473
1,1-Dichloropropene	BRL	mg/kg		0.00077	1	8260B	05/14/08 23:42		Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg		0.00074	1	8260B	05/14/08 23:42	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0065	0.00087	1	8260B	05/14/08 23:42	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0065	0.00085	1	8260B	05/14/08 23:42	erusseli	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0065	0.00033	1	8260B	05/14/08 23:42	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0065	0.00081	1	8260B	05/14/08 23:42	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0065	0.00042	1	8260B	05/14/08 23:42	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0065	0.00073	1	8260B	05/14/08 23:42	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0065	0.0016	1	8260B	05/14/08 23:42	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0065	0.00055	1	8260B	05/14/08 23:42	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0065	0.00043	1	8260B	05/14/08 23:42	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0065	0.00027	1	8260B	05/14/08 23:42	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0065	0.00084	1	8260B	05/14/08 23:42	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0065	0.00094	1	8260B	05/14/08 23:42	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0065	0.00037	1	8260B	05/14/08 23:42	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-24-6

 Prism Sample ID:
 214077

 COC Group:
 G0508310

 Time Collected:
 05/08/08
 9:55

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Analys Date/Time	t Batch ID
2-Hexanone	BRL	mg/kg	0.065	0.0056	1	8260B	05/14/08 23:42 erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0065	0.00048	1	8260B	05/14/08 23:42 erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.065	0.0068	1	8260B	05/14/08 23:42 erussell	Q32473
Acetone	BRL	mg/kg	0.065	0.019	1	8260B	05/14/08 23:42 erusseli	Q32473
Benzene	BRL	mg/kg	0.0039	0.00055	1	8260B	05/14/08 23:42 erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0065	0.00084	1	8260B	05/14/08 23:42 erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0065	0.00054	1	8260B	05/14/08 23:42 erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0065	0.0007	1	8260B	05/14/08 23:42 erussell	Q32473
Bromoform	BRL	mg/kg	0.0065	0.00059	1	8260B	05/14/08 23:42 erussell	Q32473
Bromomethane	BRL	mg/kg	0.013	0.0015	1	8260B	05/14/08 23:42 erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0065	0.00043	1	8260B	05/14/08 23:42 erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0065	0.00067	1	8260B	05/14/08 23:42 erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0065	0.0006	1	8260B	05/14/08 23:42 erussell	Q32473
Chloroethane	BRL	mg/kg	0.013	0.0022	1	8260B	05/14/08 23:42 erussell	Q32473
Chloroform	BRL	mg/kg	0.0065	0.0011	1	8260B	05/14/08 23:42 erussell	Q32473
Chloromethane	BRL	mg/kg	0.0065	0.0016	1	8260B	05/14/08 23:42 erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0065	0.0010	1	8260B	05/14/08 23:42 erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0065	0.00086	1	8260B	05/14/08 23:42 erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0065	0.0018	1	8260B	05/14/08 23:42 erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0065	0.0003	1	8260B	05/14/08 23:42 erusseli	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0065	0.0006	1	8260B	05/14/08 23:42 erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0065	0.00038	1	8260B	05/14/08 23:42 erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.013	0.0011	1	8260B	05/14/08 23:42 erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.019	1	8260B	05/14/08 23:42 erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00055	1	8260B	05/14/08 23:42 erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0065	0.0011	1	8260B	05/14/08 23:42 erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0065	0.00047	1	8260B	05/14/08 23:42 erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 O20/
 Client Sample ID:
 P28-24-6

 Prism Sample ID:
 214077

 Parcel
 COC Group:
 G0508310

 Time Collected:
 05/08/08
 9:55

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0065	0.00043	1	8260B	05/14/08 23:42	erussell	Q32473
Naphthalene	BRL	mg/kg	0.013	0.00078	1	8260B	05/14/08 23:42	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0065	0.00027	1	8260B	05/14/08 23:42	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0065	0.00052	1	8260B	05/14/08 23:42	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0065	0.00044	1	8260B	05/14/08 23:42	erussell	Q32473
Styrene	BRL	mg/kg	0.0065	0.00073	1	8260B	05/14/08 23:42	erussell	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0065	0.00055	1	8260B	05/14/08 23:42	erussell	Q32473
Tetrachloroethene	BRL	mg/kg	0.0065	0.00059	1	8260B	05/14/08 23:42	erussell	Q32473
Toluene	BRL	mg/kg	0.0065	0.00048	1	8260B	05/14/08 23:42	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0065	0.00084	1	8260B	05/14/08 23:42	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0065	0.00077	1	8260B	05/14/08 23:42	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0065	0.00095	1	8260B	05/14/08 23:42	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0065	0.0012	1	8260B	05/14/08 23:42	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.033	0.0018	1	8260B	05/14/08 23:42	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0065	0.0011	1	8260B	05/14/08 23:42	erussell	Q32473

				S	urrogate		% Red	covery	Co	ntrol Limits
				Т	oluene-d8		104			81 - 128
				D	Dibromofluoromethane		103 105			67 - 143
				В	Bromofluorobenzene				77 - 128	
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO) BR	RL mg/kg	8.4	1.4		1	8015B	05/15/08	0:15	jvogel	Q32506
Sample Preparation:		25.1	16 g	/	1 mL	3545	05/13/08	16:45	wconder	P21589
				S	urrogate		% Red	covery	Co	ntrol Limits
				0	-Terpheny	l		57		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-24-6	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214077	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	9:55
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50
	oampie maan.	O OII			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination					<u> </u>				
Weight 1	4.20	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.30	g			1	GRO	05/13/08 0:00	lbrown	:
Gasoline Range Organics (GRO) by	<u>/ GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.8	50	8015B	05/15/08 22:44	wbradley	Q32513

Surrogate	% Recovery	Control Limits
aaa-TFT	90	55 - 129

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-25-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214078	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Drainat No.		Time Collected:	05/08/08	10:55
Morrisville, NC 27560	Project No.: Sample Matrix:	WBS# 35015.1.1 Soil	Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	87.8	%			1	SM2540 G	05/15/08 16:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	4.57	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	5.07	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	2.91	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by G 1,1,1-Trichloroethane	<u>ic/MS</u> BRL	mg/kg	0.0062	0.00074	1	8260B	05/15/08 0:13	erussell	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0062	0.00045	1	8260B	05/15/08 0:13	erussell	Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.0062	0.00066	1	8260B	05/15/08 0:13	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0062	0.00071	1	8260B	05/15/08 0:13	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0062	0.0011	1	8260B	05/15/08 0:13	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0062	0.00074	1	8260B	05/15/08 0:13	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0062	0.00071	1	8260B	05/15/08 0:13	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0062	0.00083	1	8260B	05/15/08 0:13	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0062	0.00081	1	8260B	05/15/08 0:13	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0062	0.00031	1	8260B	05/15/08 0:13	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0062	0.00077	1	8260B	05/15/08 0:13	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0062	0.0004	1	8260B	05/15/08 0:13	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0062	0.0007	1	8260B	05/15/08 0:13	erusseli	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0062	0.0015	1	8260B	05/15/08 0:13	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	05/15/08 0:13	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	05/15/08 0:13	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0062	0.00026	1	8260B	05/15/08 0:13	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0062	0.0008	1	8260B	05/15/08 0:13	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0062	0.0009	1	8260B	05/15/08 0:13	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0062	0.00035	1	8260B	05/15/08 0:13	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

 Client Sample ID:
 P28-25-12

 Prism Sample ID:
 214078

 COC Group:
 G0508310

 Time Collected:
 05/08/08
 10:55

 Time Submitted:
 05/09/08
 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.062	0.0054	1	8260B	05/15/08 0:13	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0062	0.00046	1	8260B	05/15/08 0:13	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.062	0.0065	1	8260B	05/15/08 0:13	erussell	Q32473
Acetone	BRL	mg/kg	0.062	0.018	1	8260B	05/15/08 0:13	erussell	Q32473
Benzene	BRL	mg/kg	0.0037	0.00052	1	8260B	05/15/08 0:13	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0062	0.0008	1	8260B	05/15/08 0:13	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.0062	0.00051	1	8260B	05/15/08 0:13	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0062	0.00067	1	8260B	05/15/08 0:13	erussell	Q32473
Bromoform	BRL	mg/kg	0.0062	0.00056	1	8260B	05/15/08 0:13	erussell	Q32473
Bromomethane	BRL	mg/kg	0.012	0.0014	1	8260B	05/15/08 0:13	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0062	0.00041	1	8260B	05/15/08 0:13	erusseli	Q32473
Chlorobenzene	BRL	mg/kg	0.0062	0.00064	1	8260B	05/15/08 0:13	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0062	0.00057	1	8260B	05/15/08 0:13	erussell	Q32473
Chloroethane	BRL	mg/kg	0.012	0.0021	1	8260B	05/15/08 0:13	erussell	Q32473
Chioroform	BRL	mg/kg	0.0062	0.0010	1	8260B	05/15/08 0:13	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0062	0.0015	1	8260B	05/15/08 0:13	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0062	0.0010	1	8260B	05/15/08 0:13	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00082	1	8260B	05/15/08 0:13	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0062	0.0017	1	8260B	05/15/08 0:13	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0062	0.00029	1	8260B	05/15/08 0:13	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0062	0.00057	1	8260B	05/15/08 0:13	erussell	Q32473
lsopropylbenzene	BRL	mg/kg	0.0062	0.00036	1	8260B	05/15/08 0:13	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.012	0.0010	1	8260B	05/15/08 0:13	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.018	1	8260B	05/15/08 0:13	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00052	1	8260B	05/15/08 0:13	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0062	0.0010	1	8260B	05/15/08 0:13	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0062	0.00045	1	8260B	05/15/08 0:13	erussell	Q32473

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N. C. Department of Transportation
Attn: Martha Meyers-Lee
c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-25-12	
Prism Sample ID:	214078	
COC Group:	G0508310	
Time Collected:	05/08/08	10:55
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	05/15/08 0:13	erussell	Q32473
Naphthalene	BRL.	mg/kg	0.012	0.00075	1	8260B	05/15/08 0:13	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0062	0.00026	1	8260B	05/15/08 0:13	erussell	Q32473
p-Isopropyltoiuene	BRL	mg/kg	0.0062	0.0005	1	8260B	05/15/08 0:13	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0062	0.00042	1	8260B	05/15/08 0:13	erussell	Q32473
Styrene	BRL	mg/kg	0.0062	0.0007	1	8260B	05/15/08 0:13	erusseli	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	05/15/08 0:13	erusseli	Q32473
Tetrachloroethene	0.066	mg/kg	0.0062	0.00056	1	8260B	05/15/08 0:13	erusseli	Q32473
Toluene	BRL	mg/kg	0.0062	0.00046	1	8260B	05/15/08 0:13	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0062	8000.0	1	8260B	05/15/08 0:13	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00074	1	8260B	05/15/08 0:13	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0062	0.00091	1	8260B	05/15/08 0:13	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0062	0.0011	1	8260B	05/15/08 0:13	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.031	0.0018	1	8260B	05/15/08 0:13	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0062	0.0011	1	8260B	05/15/08 0:13	erussell	Q32473

					S	Surrogate		% Re	covery	Con	trol Limits
					Т	oluene-d8			109		81 - 128
					C	Dibromofluc	oromethane		104		67 - 143
					B	Bromofluoro	benzene		106		77 - 128
Diesel Range Organics (DRO) by GC-FID Diesel Range Organics (DRO)	BRL	mg/kg	7.9	1.3		1	8015B	05/15/08	11:15 j	vogel	Q32506
Sample Preparation:			25.21	g	/	1 mL	3545	05/13/08	16:45	wconder	P21589
					s	iurrogate		% Re	covery	Con	trol Limits
					0	-Terphenyl			61		49 - 124

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N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-25-12	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214078	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	10:55
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination								77 M / Anna 1997 - Carl Martin Contra Con	
Weight 1	4.78	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.63	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	05/15/08 23:16	wbradley	Q32513

Control Limits	% Recovery	Surrogate
55 - 129	81	aaa-TFT

Sample Comment(s):

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



N. C. Department of Transportation Attn: Martha Meyers-Lee	Project Name:	State Project: U-4020/ 320 E. King St.	Client Sample ID: Prism Sample ID:		
c/o URS 1600 Perimeter Park Dr. Suite 400	Project ID:	NCDOT: Boone - Parcel 28	COC Group: Time Collected:	G0508310 05/08/08	11:25
Morrisville, NC 27560	Project No.: Sample Matrix:	WBS# 35015.1.1 Soil	Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	87.9	%			1	SM2540 G	05/15/08 16:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	2.62	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	2.33	g			1	5035	05/13/08 0:00	lbrown	
Weight Methanol	3.62	g			1	5035	05/13/08 0:00	lbrown	
Volatile Organic Compounds by GC/ 1,1,1-Trichloroethane	/ <u>MS</u> BRL	mg/kg	0.011	0.0013	1	8260B	05/15/08 0:44	erusseli	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.011	0.00078	1	8260B	05/15/08 0:44	erussell	Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.011	0.0019	1	8260B	05/15/08 0:44	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.011	0.0013	1	8260B	05/15/08 0:44	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erusseli	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.011	0.0015	1	8260B	05/15/08 0:44	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.011	0.0014	1	8260B	05/15/08 0:44	erusseli	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.011	0.00054	1	8260B	05/15/08 0:44	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.011	0.0013	1	8260B	05/15/08 0:44	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.011	0.00069	1	8260B	05/15/08 0:44	erussell	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.011	0.0026	1	8260B	05/15/08 0:44	erusseli	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.011	0.00091	1	8260B	05/15/08 0:44	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.011	0.00072	1	8260B	05/15/08 0:44	erusseli	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.011	0.00046	1	8260B	05/15/08 0:44	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.011	0.0014	1	8260B	05/15/08 0:44	erussell	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.011	0.0016	1	8260B	05/15/08 0:44	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.011	0.00061	1	8260B	05/15/08 0:44	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-26-2	
Prism Sample ID:	214079	
COC Group:	G0508310	
Time Collected:	05/08/08	11:25
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.11	0.0094	1	8260B	05/15/08 0:44	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.011	0.0008	1	8260B	05/15/08 0:44	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.11	0.011	1	8260B	05/15/08 0:44	erussell	Q32473
Acetone	0.21	mg/kg	0.11	0.032	1	8260B	05/15/08 0:44	erussell	Q32473
Benzene	BRL	mg/kg	0.0065	0.00091	1	8260B	05/15/08 0:44	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.011	0.0014	1	8260B	05/15/08 0:44	erussell	Q32473
Bromochloromethane	BRL	mg/kg	0.011	0.00089	1	8260B	05/15/08 0:44	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erussell	Q32473
Bromoform	BRL	mg/kg	0.011	0.00098	1	8260B	05/15/08 0:44	erusseli	Q32473
Bromomethane	BRL	mg/kg	0.022	0.0024	1	8260B	05/15/08 0:44	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.011	0.00072	1	8260B	05/15/08 0:44	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.011	0.0011	1	8260B	05/15/08 0:44	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.011	0.0010	1	8260B	05/15/08 0:44	erussell	Q32473
Chloroethane	BRL	mg/kg	0.022	0.0036	1	8260B	05/15/08 0:44	erussell	Q32473
Chloroform	BRL	mg/kg	0.011	0.0018	1	8260B	05/15/08 0:44	erussell	Q32473
Chloromethane	BRL	mg/kg	0.011	0.0026	1	8260B	05/15/08 0:44	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.011	0.0017	1	8260B	05/15/08 0:44	erussell	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.011	0.0014	1	8260B	05/15/08 0:44	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.011	0.0030	1	8260B	05/15/08 0:44	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.011	0.0005	1	8260B	05/15/08 0:44	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.011	0.0010	1	8260B	05/15/08 0:44	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.011	0.00063	1	8260B	05/15/08 0:44	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.022	0.0018	1	8260B	05/15/08 0:44	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.22	0.032	1	8260B	05/15/08 0:44	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.022	0.00091	1	8260B	05/15/08 0:44	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.011	0.0018	1	8260B	05/15/08 0:44	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.011	0.00078	1	8260B	05/15/08 0:44	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

 Project Name:
 State Project: U-4020/ 320 E. King St.

 Project ID:
 NCDOT: Boone - Parcel 28

 Project No.:
 WBS# 35015.1.1

 Sample Matrix:
 Soil

Client Sample ID:	P28-26-2	
Prism Sample ID:	214079	
COC Group:	G0508310	
Time Collected:	05/08/08	11:25
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.011	0.00072	1	8260B	05/15/08 0:44	erussell	Q32473
Naphthalene	BRL	mg/kg	0.022	0.0013	1	8260B	05/15/08 0:44	erussell	Q32473
o-Xylene	BRL	mg/kg	0.011	0.00046	1	8260B	05/15/08 0:44	erussell	Q32473
p-Isopropyitoluene	BRL	mg/kg	0.011	0.00087	1	8260B	05/15/08 0:44	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.011	0.00074	1	8260B	05/15/08 0:44	erussell	Q32473
Styrene	BRL	mg/kg	0.011	0.0012	1	8260B	05/15/08 0:44	erusseli	Q32473
tert-Butylbenzene	BRL	mg/kg	0.011	0.00091	1	8260B	05/15/08 0:44	erussell	Q32473
Tetrachloroethene	0.34	mg/kg	0.011	0.00098	1	8260B	05/15/08 0:44	erussell	Q32473
Toluene	BRL	mg/kg	0.011	8000.0	1	8260B	05/15/08 0:44	erusseli	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.011	0.0014	1	8260B	05/15/08 0:44	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.011	0.0013	1	8260B	05/15/08 0:44	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.011	0.0016	1	8260B	05/15/08 0:44	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.011	0.0019	1	8260B	05/15/08 0:44	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.054	0.0031	1	8260B	05/15/08 0:44	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.011	0.0019	1	8260B	05/15/08 0:44	erussell	Q32473

						Surrogate		% Re	covery	v Co	ontrol Limits
					-	Toluene-d8			108		81 - 128
						Dibromoflue	promethane		105		67 - 143
						Bromofluor	obenzene		107		77 - 128
<u>Diesel Range Organics (DRO) by GC-Fi</u> Diesel Range Organics (DRO)	<u>D</u> BRL	mg/kg	8.0	1.3		1	8015B	05/15/08	0:50	jvogel	Q32506
Sample Preparation:			25.0 ⁻	lg	1	1 mL.	3545	05/13/08	16:45	wconde	r P21589
						Surrogate		% Re	covery	, Ca	ontrol Limits
						o-Terpheny	l		78		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-26-2	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214079	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	11:25
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination								· · · · · · · · · · · ·	
Weight 1	4.96	g			1	GRO	05/13/08 0:00	Ibrown	
Weight 2	4.66	g			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	<u>(GC-FID</u>								
Gasoline Range Organics (GRO)	BRL.	mg/kg	5.7	3.6	50	8015B	05/15/08 23:47	wbradley	Q32513

Surrogate	% Recovery	Control Limits
aaa-TFT	123	55 - 129

Sample Comment(s):

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

05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee	Project Name:	State Project: U-4020/ 320 E. King St.	Client Sample ID: Prism Sample ID:		
c/o URS 1600 Perimeter Park Dr. Suite 400	Project ID: Project No.:	NCDOT: Boone - Parcel 28 WBS# 35015.1.1	COC Group: Time Collected:	G0508310 05/08/08	11:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	89.3	%			1	SM2540 G	05/15/08 16:00	mbarber	
Sample Weight Determination Weight Bisulfate 1	3.34	g			1	5035	05/13/08 0:00	lbrown	
Weight Bisulfate 2	4.17	g			1	5035	05/13/08 0:00	Ibrown	
Weight Methanol	4.81	g			1	5035	05/13/08 0:00	Ibrown	
Volatile Organic Compounds by GC/ 1,1,1-Trichloroethane	<u>MS</u> BRL	mg/kg	0.0084	0.00099	1	8260B	05/15/08 1:16	erusseli	Q32473
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0084	0.0006	1	8260B	05/15/08 1:16	erussell	Q32473
1,1,2-Trichloroethane	BRL	mg/kg	0.0084	0.00089	1	8260B	05/15/08 1:16	erussell	Q32473
1,1-Dichloroethane	BRL	mg/kg	0.0084	0.00096	1	8260B	05/15/08 1:16	erussell	Q32473
1,1-Dichloroethene	BRL	mg/kg	0.0084	0.0014	1	8260B	05/15/08 1:16	erussell	Q32473
1,1-Dichloropropene	BRL	mg/kg	0.0084	0.00099	1	8260B	05/15/08 1:16	erussell	Q32473
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0084	0.00096	1	8260B	05/ 15/0 8 1:16	erussell	Q32473
1,2,3-Trichloropropane	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erussell	Q32473
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erussell	Q32473
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0084	0.00042	1	8260B	05/15/08 1:16	erussell	Q32473
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0084	0.0010	1	8260B	05/15/08 1:16	erussell	Q32473
1,2-Dichlorobenzene	BRL	mg/kg	0.0084	0.00054	1	8260B	05/15/08 1:16	erusseli	Q32473
1,2-Dichloroethane	BRL	mg/kg	0.0084	0.00094	1	8260B	05/15/08 1:16	erussell	Q32473
1,2-Dichloropropane	BRL	mg/kg	0.0084	0.0020	1	8260B	05/15/08 1:16	erussell	Q32473
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0084	0.0007	1	8260B	05/15/08 1:16	erussell	Q32473
1,3-Dichlorobenzene	BRL	mg/kg	0.0084	0.00055	1	8260B	05/15/08 1:16	erussell	Q32473
1,3-Dichloropropane	BRL	mg/kg	0.0084	0.00035	1	8260B	05/15/08 1:16	erussell	Q32473
1,4-Dichlorobenzene	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erusseli	Q32473
2,2-Dichloropropane	BRL	mg/kg	0.0084	0.0012	1	8260B	05/15/08 1:16	erussell	Q32473
2-Chlorotoluene	BRL	mg/kg	0.0084	0.00047	1	8260B	05/15/08 1:16	erussell	Q32473

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Laboratory Report

05/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name: State Pro 320 E. Kii Project ID: NCDOT: 1 28 Project No.: WBS# 35 Sample Matrix: Soil

State Project: U-4020/
320 E. King St.Client Sample INCDOT: Boone - Parcel
28COC Group:
Time Collected
Time Submitted

Client Sample ID: P28-26-20	
Prism Sample ID: 214080	
COC Group: G0508310	
Time Collected: 05/08/08 11:4	0
Time Submitted: 05/09/08 14:5	С

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.084	0.0072	1	8260B	05/15/08 1:16	erussell	Q32473
4-Chlorotoluene	BRL	mg/kg	0.0084	0.00062	1	8260B	05/15/08 1:16	erussell	Q32473
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.084	0.0087	1	8260B	05/15/08 1:16	erussell	Q32473
Acetone	BRL	mg/kg	0.084	0.025	1	8260B	05/15/08 1:16	erussell	Q32473
Benzene	BRL	mg/kg	0.0050	0.0007	1	8260B	05/15/08 1:16	erussell	Q32473
Bromobenzene	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erusseli	Q32473
Bromochloromethane	BRL	mg/kg	0.0084	0.00069	1	8260B	05/15/08 1:16	erussell	Q32473
Bromodichloromethane	BRL	mg/kg	0.0084	0.00091	1	8260B	05/15/08 1:16	erussell	Q32473
Bromoform	BRL	mg/kg	0.0084	0.00075	1	8260B	05/15/08 1:16	erussell	Q32473
Bromomethane	BRL	mg/kg	0.017	0.0019	1	8260B	05/15/08 1:16	erussell	Q32473
Carbon tetrachloride	BRL	mg/kg	0.0084	0.00055	1	8260B	05/15/08 1:16	erussell	Q32473
Chlorobenzene	BRL	mg/kg	0.0084	0.00085	1	8260B	05/15/08 1:16	erussell	Q32473
Chlorodibromomethane	BRL	mg/kg	0.0084	0.00077	1	8260B	05/15/08 1:16	erussell	Q32473
Chloroethane	BRL	mg/kg	0.017	0.0028	1	8260B	05/15/08 1:16	erussell	Q32473
Chloroform	BRL	mg/kg	0.0084	0.0014	1	8260B	05/15/08 1:16	erussell	Q32473
Chloromethane	BRL	mg/kg	0.0084	0.0020	1	8260B	05/15/08 1:16	erussell	Q32473
cis-1,2-Dichloroethene	BRL	mg/kg	0.0084	0.0013	1	8260B	05/15/08 1:16	erusseli	Q32473
cis-1,3-Dichloropropene	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erussell	Q32473
Dichlorodifluoromethane	BRL	mg/kg	0.0084	0.0023	1	8260B	05/15/08 1:16	erussell	Q32473
Ethylbenzene	BRL	mg/kg	0.0084	0.00039	1	8260B	05/15/08 1:16	erussell	Q32473
Isopropyl ether (IPE)	BRL	mg/kg	0.0084	0.00077	1	8260B	05/15/08 1:16	erussell	Q32473
Isopropylbenzene	BRL	mg/kg	0.0084	0.00049	1	8260B	05/15/08 1:16	erussell	Q32473
m,p-Xylenes	BRL	mg/kg	0.017	0.0014	1	8260B	05/15/08 1:16	erussell	Q32473
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.17	0.025	1	8260B	05/15/08 1:16	erussell	Q32473
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.017	0.0007	1	8260B	05/15/08 1:16	erussell	Q32473
Methylene chloride	BRL	mg/kg	0.0084	0.0014	1	8260B	05/15/08 1:16	erussell	Q32473
n-Butylbenzene	BRL	mg/kg	0.0084	0.0006	1	8260B	05/15/08 1:16	erussell	Q32473

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N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Project ID:NCDOT: Boone - Parcel
28Project No.:WBS# 35015.1.1Sample Matrix:Soil

Client Sample ID:	P28-26-20	
Prism Sample ID:	214080	
COC Group:	G0508310	
Time Collected:	05/08/08	11:40
Time Submitted:	05/09/08	14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0084	0.00055	1	8260B	05/15/08 1:16	erussell	Q32473
Naphthalene	BRL	mg/kg	0.017	0.0010	1	8260B	05/15/08 1:16	erussell	Q32473
o-Xylene	BRL	mg/kg	0.0084	0.00035	1	8260B	05/15/08 1:16	erussell	Q32473
p-Isopropyltoluene	BRL	mg/kg	0.0084	0.00067	1	8260B	05/15/08 1:16	erussell	Q32473
sec-Butylbenzene	BRL	mg/kg	0.0084	0.00057	1	8260B	05/15/08 1:16	erussell	Q32473
Styrene	BRL	mg/kg	0.0084	0.00094	1	8260B	05/15/08 1:16	erusseli	Q32473
tert-Butylbenzene	BRL	mg/kg	0.0084	0.0007	1	8260B	05/15/08 1:16	erussell	Q32473
Tetrachioroethene	0.0079 J	mg/kg	0.0084	0.00075	1	8260B	05/15/08 1:16	erussell	Q32473
Toluene	BRL	mg/kg	0.0084	0.00062	1	8260B	05/15/08 1:16	erussell	Q32473
trans-1,2-Dichloroethene	BRL	mg/kg	0.0084	0.0011	1	8260B	05/15/08 1:16	erussell	Q32473
trans-1,3-Dichloropropene	BRL	mg/kg	0.0084	0.00099	1	8260B	05/15/08 1:16	erussell	Q32473
Trichloroethene	BRL	mg/kg	0.0084	0.0012	1	8260B	05/15/08 1:16	erussell	Q32473
Trichlorofluoromethane	BRL	mg/kg	0.0084	0.0015	1	8260B	05/15/08 1:16	erussell	Q32473
Vinyl acetate	BRL	mg/kg	0.042	0.0024	1	8260B	05/15/08 1:16	erussell	Q32473
Vinyl chloride	BRL	mg/kg	0.0084	0.0015	1	8260B	05/15/08 1:16	erussell	Q32473

					Surrogate		% Re	covery	, Ca	ntrol Limits	
						Toluene-d8		105			81 - 128
						Dibromofluc	promethane		104		67 - 143
						Bromofluoro	benzene		106		77 - 128
Diesel Range Organics (DRO) by GC-I Diesel Range Organics (DRO)	EID BRL	mg/kg	7.7	1.2		1	8015B	05/15/08	1:26	jvogel	Q32506
Sample Preparation:			25.3	87 g	1	1 mL	3545	05/13/08	16:45	wconde	r P21589
						Surrogate		% Re	covery	, Co	ntrol Limits
						o-Terpheny			60		49 - 124

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05/23/08

N. C. Department of Transportation	Project Name:	State Project: U-4020/	Client Sample ID:	P28-26-20	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214080	
c/o URS	Project ID:	NCDOT: Boone - Parcel	COC Group:	G0508310	
1600 Perimeter Park Dr. Suite 400	Project No.:	28 WBS# 35015.1.1	Time Collected:	05/08/08	11:40
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50
	Campic Mataix.	001			

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination								· · ·	
Weight 1	4.10	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.79	9			1	GRO	05/13/08 0:00	lbrown	
Gasoline Range Organics (GRO) by	<u>/ GC-FID</u>								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	3.5	50	8015B	05/16/08 0:18	wbradley	Q32513

Surrogate	% Recovery Control Limit	
aaa-TFT	107 55 - 129	-

Sample Comment(s):

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

5/23/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0508310)
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	5/9/08	14:50
c/o URS	Project ID:	NCDOT: Boone - Parcel			
1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project No.:	28 WBS# 35015.1.1			

Volatile Organic Compounds by GC/MS, method 8260B

od Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q32473
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q32473
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q32473
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q32473
1,1-Dichloroethene	NÐ	0.005	<0.0025	mg/kg	Q32473
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q32473
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q32473
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q32473
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q32473
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q32473
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q32473
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q32473
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q3247:
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q32473
2-Chiorotoluene	ND	0.005	<0.0025	mg/kg	Q3247:
2-Hexanone	ND	0.05	<0.025	mg/kg	Q32473
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q3247;
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q32473
Acetone	ND	0.05	<0.025	mg/kg	Q32473
Benzene	ND	0.003	<0.0015	mg/kg	Q32473
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q32473
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q32473
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q32473
Bromoform	ND	0.005	<0.0025	mg/kg	Q32473
Bromomethane	ND	0.01	<0.005	mg/kg	Q32473
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q3247
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q32473
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q32473
Chloroethane	ND	0.01	<0.005	mg/kg	Q32473



Level II QC Report

5/23/08

Method Blank	Result	RL	Control Limit	Units			QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg			Q32473
Chloromethane	ND	0.005	<0.0025	mg/kg			Q32473
cis-1,2-Dichloroethene	NÐ	0.005	<0.0025	mg/kg			Q32473
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q32473
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg			Q32473
Ethylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg			Q32473
Isopropylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
m,p-Xylenes	ND	0.01	<0.005	mg/kg			Q32473
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg			Q32473
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg			Q32473
Methylene chloride	ND	0.005	<0.0025	mg/kg			Q32473
n-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
n-Propylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
Naphthalene	ND	0.01	<0.005	mg/kg			Q32473
o-Xylene	ND	0.005	<0.0025	mg/kg			Q32473
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg			Q32473
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
Styrene	ND	0.005	<0.0025	mg/kg			Q32473
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg			Q32473
Tetrachloroethene	NÐ	0.005	<0.0025	mg/kg			Q32473
Toluene	ND	0.005	<0.0025	mg/kg			Q32473
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg			Q32473
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg			Q32473
Trichloroethene	NÐ	0.005	<0.0025	mg/kg			Q32473
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg			Q32473
Vinyl acetate	ND	0.025	<0.0125	mg/kg			Q32473
Vinyl chloride	ND	0.005	<0.0025	mg/kg			Q32473
aboratory Control Sample	Result	Spike Amour	at	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	0.04699	0.05		mg/kg	94	57-122	Q32473
Benzene	0.04545	0.05		mg/kg	91	62-119	Q32473
Chlorobenzene	0.04421	0.05		mg/kg	88	61-124	Q32473
Toluene	0.04478	0.05		mg/kg	90	57-122	Q32473
Trichloroethene	0.04565	0.05		mg/kg	91	59-129	Q32473



Level II QC Report

5/23/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560	Project Name: Project I Project I	ID: No.:	State Proje 320 E. Kin NCDOT: B 28 WBS# 350	g St. oone - P		COC Group Date/Time \$			0 14:50	
Matrix Spike Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %			QC Batch ID	
214070 1,1-Dichloroethene	0.04222	0.05		mg/kg	84	44-14	0	·	Q32473	
Benzene	0.04013	0.05		mg/kg	80	46-13	6		Q32473	
Chlorobenzene	0.03705	0.05		mg/kg	74	47-13	5		Q32473	
Toluene	0.04074	0.05		mg/kg	81	47-13	6		Q32473	
Trichloroethene	0.03935	0.05		mg/kg	79	45-14	1		Q32473	
Matrix Spike Duplicate Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID	
214070 1,1-Dichloroethene	0.03742	0.05		mg/kg	75	44-14	0 12	0 - 23	Q32473	
Benzene	0.03687	0.05		mg/kg	74	46-13	6 8	0 - 22	Q32473	
Chlorobenzene	0.03474	0.05		mg/kg	69	47-13	56	0 - 22	Q32473	
Toluene	0.03679	0.05		mg/kg	74	47-13	6 10	0 - 22	Q32473	
Trichloroethene	0.03659	0.05		mg/kg	73	45-14	17	0 - 23	Q32473	
Diesel Range Organics (DRO) by GC-	FID, metho	od 8015B								
Method Blank	Result	RL	Control L	imit Units					QC Batch ID	
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q32506	
Laboratory Control Sample	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %			QC Batch ID	
Diesel Range Organics (DRO)	71.3	80		mg/kg	89	55-10	9		Q32506	
Matrix Spike					Recovery	Recovery Ranges			QC Batch	
Sample ID:	Result	Spike Amou	int	Units	%	%%			۵۱ ا	
214070 Diesel Range Organics (DRO)	67.0	80		mg/kg	84	50-11	7		Q32506	
Matrix Spike Duplicate Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID	
214070 Diesel Range Organics (DRO)	61.2	80		mg/kg	77	50-11	79	0 - 24	Q32506	

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Level II QC Report

5/23/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0508310	
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	5/9/08	14:50
c/o URS	Project ID:	NCDOT: Boone - Parcel			
1600 Perimeter Park Dr. Suite 400	Project No.:	28			
Morrisville, NC 27560		WBS# 35015.1.1			

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

Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg					Q32513
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organics (GRO)	44.9	50		mg/kg	90	67-116			Q32513
Matrix Spike Sample ID:	Result	Spike Amou	ગ	Units	Recovery %	Recovery Ranges %			QC Batch ID
214070 Gasoline Range Organics (GRO)	50.0	50		mg/kg	100	57-113			Q32513
Matrix Spike Duplicate Sample ID:	Result	Spike Arnour	ıt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
214070 Gasoline Range Organics (GRO)	47.9	50		mg/kg	96	57-113	4	0 - 23	Q32513
Diesel Range Organics (DRO) by GC-	FID, metho	od 8015B							
Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q32561
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	76.3	80		mg/kg	95	55-109			Q32561
Matrix Spike Sample ID:	Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
213973 Diesel Range Organics (DRO)	78.0	80		mg/kg	98	50-117			Q32561

RPD Matrix Spike Duplicate Recovery Recovery QC Batch ID RPD Ranges Range Result Spike Amount Units % Sample ID: % % % 213973 Diesel Range Organics (DRO) 68.6 0-24 Q32561 80 mg/kg 86 50-117 13

#-See Case Narrative

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	2:// 2:// 2:// 2:// 3:// <th< th=""><th>T/SAMPLING PERSONNEL</th><th>USACEFLNC<u>></u></th><th>PRISM</th><th>REMARKS LAB ID NO.</th><th>GIHATO</th><th>110418</th><th>214072</th><th>RI4073</th><th>HIGHIR</th><th>Q14=75</th><th>214576</th><th>LTOHIG "</th><th>2140TB</th><th>214075</th><th>DOWN FIRMLY</th><th>PRISM USE ONLY</th><th><u>1949</u>288 (98</th><th>Sue Departure mine. Field Tech Fee.</th><th>Mileage</th><th>.e</th><th>SEE REVERSE FOR TERMS & CONDITIONS</th><th>ORIGINAL</th></th<>	T/SAMPLING PERSONNEL	USACEFLNC <u>></u>	PRISM	REMARKS LAB ID NO.	GIHATO	110418	214072	RI4073	HIGHIR	Q14=75	214576	LTOHIG "	2140TB	214075	DOWN FIRMLY	PRISM USE ONLY	<u>1949</u> 288 (98	Sue Departure mine. Field Tech Fee.	Mileage	.e	SEE REVERSE FOR TERMS & CONDITIONS	ORIGINAL
LAB U	Received ONWET ICER From A PROPER PRESERVATIVES Inducated Received WITHIN HOLDING TIMES? CUSTIODIS SEALIS INTACT VOWTILES, recal WOUT HEADSPACE PROPER CONTAINERS used?	TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL	Certification: NELAC USACE SC OTHER Water Chlorinated: YES NO X Sample Iced Upon Collection: YES	ANALYSES REQUESTED	('d _)											Corp.	ist be	Militarythours Additional Comments:	1.00	1×Sol		OTHER: DINC DSC	to Head Space)
Y RECORD	N UST Project: (Yes) (NO eporting (QC LEVEL I II III IV) : N (LOOT	<u>U ~4020</u> Elent:35015111	□ 4 Days □ 5 Days □ Tush Work Must Be s □ Pre-Approved Jsiness day. weekends and holidays. Weekerds and holidays. Weekerds and holidays.	2	and when we we	321	321	7 2 1	3 2 1	2	32	3 7 1	5 2 7	i 1 2	 12 12 12 12	Affiliation U 25	ed above. Any changes mu	STR/S	Date of the	TORY. COQUINO.	6 05231D	LA LANDFILL	e Oroanics Analvsis (Ze
OF CUSTODY R	DOT: BODN (res) (vo) project specific repoi Requirements i rect BM : (Stade Project	Fiequested Due Date 🗆 1 Day 🗆 2 Days 🗇 4 Days 🗅 5 Days "Working Days" 🔲 6-9 Days Sociandard 10 days 🗆 Rush Work Must Be Samples received after 15:00 will be processed next business day. Turmaround time is based on business days, excluding weekends and holidays. (SEE REVERSE FOR TEMS & CONDITIONS REGARDING SERVICES REVERSE FOR FIRM ABORATORIES, INC. TO CLIENT)	TAINER DRFSERVA	,	5-40-			→	3r40ml	5-40ml			-		Chap (Neese	th the analyses as request es after analyses have bee	Br for	v ≫C	S BY: FRANSPORTATION TO THE LABORATORY	(BORATORY.	E: RCRA: DNC DSC	on-Lined Cap VOA = Vola
CHAIN C	Project Name: M Short Hold Analys *Please ATTACH a provisions and/or Midrose:	<u>Purchase Order N</u>	"Hequested Due Date "Working Days" Samples received afte Turnaround time is bas RENDERES FC		OR *TYPE NO.	6	G	و 	, , ,	2	è -				A A	Sampled By (Print Name)	h for Prism to proceed wit	Reference By: (Signature)	Reveluence (Contature)	MAN CARENT AND	SOC UNTIL RECEIVED AT THE LA		
ISM	Charlotte, NC 28%	Fax (Sear No): (19) Hel-(415	101 - 28 King 6	TIME MATRIX COLLECTED (SOIL	MILITARY WATER OR HOURS SLUDGE)	1415 Soi	1450	1640	1650	1700			155			4	ody is your authorization ect Manager. There will t	Jan C		ERS SHOULD BE TAPED SHUT	ARE NOT ACCEPTED AND VERIFIED AGAINST VOC UNTIL RECEIVED AT THE ilvered Vorsism Field Service D Other		C = Clear G =
PRISM	Full Service Analytical & En rook Road • P.O. Box 2405 529-6364 • Fax: 704/525-0 pany Name: U C S Contact Name: <u>Mart</u> Address: <u>1600</u> P.A. <u>in</u>	NIGC (2) 11 () (27500 Phone 911) 461-100 Fax (reg (No): (19)461-1415	EDD Type: PDFExcel X_Other_ Site Location Name:C41 Site Location Physical Address:	CLIENT	RIPTION CO	28-17-20 5-6-08	128-18-12 5-6-08	P28-19-6 5-6-08	50-	28-21-2 5-7-08	128-22-6 5-8-08	P28-23-6 5-8-08	P28-24-6 5-8-08	P28-25-12 5-8-08	28-26-2 5-8-08	1	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 Mangger. There will be charges for any changes after analyses have been initialized.	Relinquisped By: (Signature)	Relinquichind By: (Signature)	Reinquheriszter, Sginalure) Modern Stimeten: JOCE: AN SAMD E COOL	D UPS D Hand-de	SC UST: GR	A TYPE CODES:





05/27/08 Date: Company: N. C. Department of Transportation Contact: Martha Mevers-Lee Address: c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s): NCDOT: Boone - Parcel 28 G0508311 05/07/08 05/09/08

Client Project Name Or No: State Project: U-4020/ 320 E. King

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 8 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

N/A

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:

Signature:

Review Date:

Robbi A. Jones **Project Manager:** 05/27/08

Signature: **Approval Date:**

Robbi A. Jones 05/27/08

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.

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05/27/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

Client Sample ID: D28-17 Project Name: State Project: U-4020/ 320 E. King St. NCDOT: Boone - Pare Project ID: 28 Project No.: WBS# 35015.1.1 Time Submitted: 05/09/08 Sample Matrix: Water

:0/	Client Sample ID:	P28-17		
	Prism Sample ID:	214081		
rcel	COC Group:	G0508311		
	Time Collected:	05/07/08	17:15	
	Time Submitted:	05/09/08	14:50	

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by C									
1,1,1,2-Tetrachloroethane	BRL	μg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
1,1,1-Trichloroethane	BRL	μg/L	1.0	0.20	1	8260B	05/17/08 2:29	erussell	Q32551
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	05/17/08 2:29	erussell	Q32551
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	05/17/08 2:29	erusseli	Q32551
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	05/17/08 2:29	erussell	Q32551
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	05/17/08 2:29	erussell	Q32551
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	05/17/08 2:29	erussell	Q32551
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	05/17/08 2:29	erussell	Q32551
1,2,4-Trichlorobenzene	BRL	μg/L	1.0	0.22	1	8260B	05/17/08 2:29	erussell	Q32551
1,2,4-Trimethylbenzene	BRL	μg/L	1.0	0.16	1	8260B	05/17/08 2:29	erussell	Q32551
1,2-Dibromo-3-chloropropane	BRL	μg/L	2.0	1.3	1	8260B	05/17/08 2:29	erussell	Q32551
1,2-Dibromoethane (EDB)	BRL	μg/L	1.0	0.14	1	8260B	05/17/08 2:29	erussell	Q32551
1,2-Dichlorobenzene	BRL	μg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
1,2-Dichloroethane	BRL	μg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
1,2-Dichloropropane	BRL	μg/L	1.0	0.17	1	8260B	05/17/08 2:29	erussell	Q32551
1,3,5-Trimethylbenzene	BRL	μg/L	1.0	0.19	1	8260B	05/17/08 2:29	erussell	Q32551
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
1,3-Dichloropropane	BRL	μg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	05/17/08 2:29	erussell	Q32551
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	05/17/08 2:29	erussell	Q32551
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	05/17/08 2:29	erussell	Q32551
4-Chlorotoluene	BRL	μg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
4-Methyl-2-pentanone (MIBK)	BRL	μg/L	5.0	0.46	1	8260B	05/17/08 2:29	erussell	Q32551
Acetone	BRL	µg/L	10	0.44	1	8260B	05/17/08 2:29	erussell	Q32551

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Laboratory Report

05/27/08

17:15

14:50

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560

State Project: U-4020/ Project Name: Client Sample ID: P28-17 320 E. King St. Prism Sample ID: 214081 Project ID: NCDOT: Boone - Parcel COC Group: G0508311 28 Time Collected: 05/07/08 Project No .: WBS# 35015.1.1 Time Submitted: 05/09/08 Sample Matrix: Water

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	05/17/08 2:29	erussell	Q32551
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	05/17/08 2:29	erussell	Q32551
Benzene	BRL	μg/L	1.0	0.094	1	8260B	05/17/08 2:29	erussell	Q32551
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	05/17/08 2:29	erussell	Q32551
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	05/17/08 2:29	erussell	Q32551
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	05/17/08 2:29	erussell	Q32551
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
Bromomethane	BRL	μg/L	3.0	0.23	1	8260B	05/17/08 2:29	erussell	Q32551
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	05/17/08 2:29	erussell	Q32551
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	05/17/08 2:29	erussell	Q32551
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	05/17/08 2:29	erussell	Q32551
Chlorodibromomethane	BRL	μg/L	1.0	0.20	1	8260B	05/17/08 2:29	erussell	Q32551
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	05/17/08 2:29	erussell	Q32551
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	05/17/08 2:29	erussell	Q32551
Chloromethane	BRL	μg/L	2.0	0.21	1	8260B	05/17/08 2:29	erussell	Q32551
cis-1,2-Dichloroethene	28	μg/L	1.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
cis-1,3-Dichloropropene	BRL	μg/L	1.0	0.097	1	8260B	05/17/08 2:29	erussell	Q32551
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	05/17/08 2:29	erussell	Q32551
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	05/17/08 2:29	erussell	Q32551
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	05/17/08 2:29	erussell	Q32551
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	05/17/08 2:29	erussell	Q32551
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	05/17/08 2:29	erussell	Q32551
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	05/17/08 2:29	erussell	Q32551
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	05/17/08 2:29	erussell	Q32551
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	05/17/08 2:29	erusseli	Q32551
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	05/17/08 2:29	erusseli	Q32551
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	05/17/08 2:29	erussell	Q32551

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05/27/08

N. C. Department of Transportation Attn: Martha Meyers-Lee c/o URS 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560 Project Name:State Project: U-4020/
320 E. King St.Client Sa
Prism SaProject ID:NCDOT: Boone - Parcel
28COC Gro
Time CollProject No.:WBS# 35015.1.1Time SubSample Matrix:WaterTime Sub

Client Sample ID:	P28-17	
Prism Sample ID:	214081	
COC Group:	G0508311	
Time Collected:	05/07/08	17:15
Time Submitted:	05/09/08	14:50

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	05/17/08 2:29	erussell	Q32551
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	05/17/08 2:29	erussell	Q32551
Naphthalene	BRL	μg/L	1.0	0.19	1	8260B	05/17/08 2:29	erussell	Q32551
o-Xylene	BRL	μg/L	1.0	0.17	1	8260B	05/17/08 2:29	erussell	Q32551
p-Isopropyltoluene	BRL	μg/L	1.0	0.21	1	8260B	05/17/08 2:29	erusseli	Q32551
sec-Butylbenzene	BRL	μg/L	1.0	0.16	1	8260B	05/17/08 2:29	erussell	Q32551
Styrene	BRL	µg/L	1.0	0.11	1	8260B	05/17/08 2:29	erussell	Q32551
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	05/17/08 2:29	erussell	Q32551
Tetrachloroethene	5600	µg/∟	100	17	100	8260B	05/17/08 15:48	erussell	Q32551
Toluene	BRL	µg/L	1.0	0.31	1	8260B	05/17/08 2:29	erussell	Q32551
trans-1,2-Dichloroethene	1.2 J	μg/L	2.0	0.12	1	8260B	05/17/08 2:29	erussell	Q32551
trans-1,3-Dichloropropene	BRL	μg/L	1.0	0.22	1	8260B	05/17/08 2:29	erussell	Q32551
Trichloroethene	65	µg/L	2.0	0.19	1	8260B	05/17/08 2:29	erussell	Q32551
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	05/17/08 2:29	erussell	Q32551
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	05/17/08 2:29	erussell	Q32551
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	05/17/08 2:29	erussell	Q32551

Surrogate	% Recovery	Control Limits
Toluene-d8	84	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	104	69 - 139

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



05/27/08

N. C. Department of Transportation	Project Name:		Client Sample ID:	P28-17	
Attn: Martha Meyers-Lee		320 E. King St.	Prism Sample ID:	214081	
c/o URS	Project ID:	NCDOT: Boone - Parcel 28	COC Group:	G0508311	
1600 Perimeter Park Dr. Suite 400	Project No.:	20 WBS# 35015.1.1	Time Collected:	05/07/08	17:15
Morrisville, NC 27560	Sample Matrix:		Time Submitted:	05/09/08	14:50

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

Sample Comment(s):

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

05/27/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0508311
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	5/9/2008 14:50
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28		
Morrisville, NC 27560	,	WBS# 35015.1.1		

Volatile Organic Compounds by GC/MS, method 8260B

lethod Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	hðv	Q32551
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q32551
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/∟	Q32551
1,1,2-Trichloro-1,2,2- Trifluoroethane	ND	5	<2.5	µg/L	Q32551
1,1,2-Trichloroethane	ND	1	<0.5	μg/L	Q32551
1,1-Dichloroethane	ND	1	<0.5	μg/ L	Q32551
1,1-Dichloroethene	ND	1	<0.5	μg/L.	Q32551
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q32551
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q32551
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q32551
1,2,4-Trichlorobenzene	ND	1	<0.5	hð\r	Q32551
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q32551
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q32551
1,2-Dibromoethane (EDB)	ND	1	<0.5	μg/L.	Q32551
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q32551
1,2-Dichloroethane	ND	1	<0.5	μg/L	Q32551
1,2-Dichloropropane	ND	1	<0.5	μg/L	Q32551
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q32551
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q32551
1,3-Dichloropropane	ND	1	<0.5	μg/L	Q32551
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q32551
1,4-Dichlorobutane	ND	5	<2.5	μg/L	Q32551
2,2-Dichloropropane	ND	2	<1	µg/L	Q32551
2-Chloroethyl vinyl ether	ND	2	<1	μg/L	Q32551
2-Chlorotoluene	ND	1	<0.5	µg/L	Q32551
2-Hexanone	ND	2	<1	µg/L	Q32551
4-Chlorotoluene	ND	1	<0.5	µg/L	Q32551
4-Methyl-2-pentanone (MIBK)	ND	2	<1	µg/L	Q32551
Acetone	ND	10	<5	µg/L	Q32551
Acrolein	ND	20	<10	hð\r	Q32551
Acrylonitrile	ND	20	<10	µg/L	Q32551
Benzene	ND	0.5	<0.25	µg/L	Q32551
Bromobenzene	ND	1	<0.5	µg/L	Q32551
Bromochloromethane	ND	1	<0.5	μg/L	Q32551



Level II QC Report

05/27/08

Method Blank

thod Blank					QC Batch
	Result	RL	Control Limit	Units	ID
Bromodichloromethane	ND	1	<0.5	µg/L	Q32551
Bromoform	ND	1	<0.5	µg/L	Q32551
Bromomethane	ND	3	<1.5	μg/L	Q32551
Carbon disulfide	ND	2	<1	µg/L	Q32551
Carbon tetrachloride	ND	2	<1	μg/L	Q32551
Chlorobenzene	ND	1	<0.5	hð\r	Q32551
Chlorodibromomethane	ND	1	<0.5	hā\T	Q32551
Chloroethane	ND	5	<2.5	µg/L	Q32551
Chloroform	ND	1	<0.5	µg/L	Q32551
Chloromethane	ND	2	<1	µg/L	Q32551
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q32551
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q32551
Dibromomethane	ND	1	<0.5	μg/L	Q32551
Dichlorodifluoromethane	ND	2	<1	μg/L	Q32551
Ethylbenzene	ND	1	<0.5	μg/L	Q32551
Hexachlorobutadiene	ND	2	<1	μg/L	Q32551
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q32551
Isopropylbenzene	ND	1	<0.5	μg/L	Q32551
m,p-Xylenes	ND	2	<1	µg/L	Q32551
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q32551
Methyl iodide	ND	5	<2.5	µg/L	Q32551
Methyl t-butyl ether (MTBE)	ND	1	<0.5	μg/L	Q32551
Methylene chloride	ND	2	<1	μg/L	Q32551
n-Butylbenzene	ND	1	<0.5	µg/L	Q32551
n-Propylbenzene	ND	1	<0.5	µg/L	Q32551
Naphthalene	ND	1	<0.5	ha\r	Q32551
o-Xylene	ND	1	<0.5	μg/L	Q32551
p-isopropyitoluene	ND	1	<0.5	hð\r	Q32551
sec-Butylbenzene	ND	1	<0.5	µg/L	Q32551
Styrene	ND	1	<0.5	µg/L,	Q32551
tert-Butylbenzene	ND	1	<0.5	µg/L.	Q32551
Tetrachloroethene	ND	1	<0.5	µg/L	Q32551
Toluene	ND	1	<0.5	µg/L	Q32551
trans-1,2-Dichloroethene	ND	2	<1	µg/L.	Q32551
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q32551
Trichloroethene	ND	2	<1	нg/L	Q32551
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Level II QC Report

05/27/08

N. C. Department of Transportation	Project	State Project: U-4020/	COC Group Number:	G0508311
Attn: Martha Meyers-Lee	Name:	320 E. King St.	Date/Time Submitted:	5/9/2008 14:50
c/o URS	Project ID:	NCDOT: Boone - Parcel		
1600 Perimeter Park Dr. Suite 400	Project No.:	28		
Morrisville, NC 27560		WBS# 35015.1.1		

Method Blank

Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Trichlorofluoromethane	ND	2	<1	µg/L					Q32551
Vinyl acetate	ND	20	<10	μg/L					Q32551
Vinyl chloride	ND	2	<1	µg/L					Q32551
Laboratory Control Sample	Result	Result Spike Amount		Units	Recovery %	Recovery Ranges %			QC Batch ID
1,1-Dichloroethene	49.45	50		µg/L	99	62-141			Q32551
Benzene	47.78	50		µg/L	96	70-141			Q32551
Chlorobenzene	49.31	50		µg/L	99	88-120			Q32551
Toluene	49.07	50		μg/L	98	78-130			Q32551
Trichloroethene	52.97	50		µg/L	106	78-124			Q32551
Matrix Spike Sample ID:	Result	Spike Amo	unt	Units	Recovery %	Recovery Ranges %			QC Batch ID
213792 1,1-Dichloroethene	2130.4	2000		µg/L	107	54-140			Q32551
Benzene	2003.2	2000		µg/L	100	62-129			Q32551
Chlorobenzene	1993.6	2000		µg/L	100	64-127			Q32551
Toluene	1901.6	2000		µg/L	95	60-131			Q32551
Trichloroethene	2033.6	2000		μg/L	100	52-128			Q32551
Matrix Spike Duplicate Sample ID:	Result	Spike Amo	unt	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
213792 1,1-Dichloroethene	2022.8	2000		µg/L	101	54-140	5	0 - 20	Q32551
Benzene	1934.8	2000		µg/L	97	62-129	3	0 - 19	Q32551
Chlorobenzene	1927.2	2000		µg/L	96	64-127	3	0 - 20	Q32551
Toluene	1 841.2	2000		µg/L	92	60-131	3	0 - 21	Q32551
Trichloroethene	1951.6	2000		µg/L	96	52-128	4	0 - 18	Q32551

#-See Case Narrative

LAB USE ONLY Samples INTACT upon arrival? Received ON WET (CE? Tamp Received ON WET (CE? Tamp PROPERSIENATIVES indicated? VOLVINES: recidWOUTHEBADSPACE? PROPERSIENATION PROPENSIENATIN	COllection: YES X NO PRISM REMARKS LAB	314081	PRESS DOWN FIRMLY - 3 COPIES	Additional Comments: Site Arrival Time: Site Departure Time: Field Tech Fee? Mileage	TERMS & CONDITIONS ORIGINAL
ECORD tr. (Yes) (10) EVELI II II IN) OT OT OT OT OT OT OT OT OT OT	ANALYSES REQUESTED		Affiliation ULS CoPD.	Houns R. La	Go5o8311 CercLa LANDFILL OTHER: DNC DSC DNC DSC = NC DSC DSC = Volatile Organics Analysis (Zero Hazd Spanol)
CHAIN OF CUSTODY RECORD PAGE OF GUOSTODY RECORD Page OF GUOST CONT Project Name: NCDUT BOCNL Nerse Short Hold Analysis: (Yes) UST Project: Yes) Place ATTACH any project specific reporting (QC LEVEL III III II) UST Project: Yes) Lee Drovisions and/or QC Requirements I N LOCT Junctions and/or QC Requirements I N LOCT N LOCT Address: Stack Project Vec M Address: Stack District U-020 M Purchase Order No./Billing Reference WES Elements N LOCT U-020 Purchase Order No./Billing Reference WES Elements M Start M M Purchase Order No./Billing Reference WES Elements M Start M M M Purchase Order No./	SAMPLE CONTAINER *TYPE PRESERVA- SEE BELOW NO. SIZE TIVES	G- 3 40ml Hcl	Print Name) Michael Meese	rism to proceed with the analyses as requested abourges for any changes after analyses have been initia of so (Signa Jue) of Signa Jue) of Sig	XPriss Field Service Other ROUNDWATER: DRINKING WATER: SOLID WASTE: RCRA: CERCLA VC DSC DNC DSC DNC DSC DNC DSC VC DSC DNC DSC DNC DSC DNC DSC DSC DNC DSC DNC DSC DSC DNC DSC
Full Service Analytical & Environmental Solutions CHAIN OF CUSTODY R 448 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. 448 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. 448 Springbrook Road • P.O. Box 2405543 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. 448 Springbrook Road • P.O. Box 240553 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. 449 Springbrook Road • P.O. Box 240553 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. 449 Springbrook Road • P.O. Box 240553 • Charlotte, NC 28224-0543 Prote - or - auore # ro Ensure PROPEN BILLING. Reporting Address: 16.00 Pox) Just Project Protect Project Particle Propring (GC LI PLUC) Phone: 110 V C 275 C0 Protect Project Project Propending (GC LI PLUC) Phone: 110 V C 275 C0 Protect Project Propending Preference WSS Elevel Email (reS)(NO) Email Address: 220 E Mirot Y Protechase Order No./Billing Reference WSS Elevel Email (reS)(NO) Email Address: 220 E Mirot Y Protechase Order No./Billing Reference WSS Elevel Euclation Physical Address: 220 E Mirot Y Protechase Order No./Billing Reference WSS elevel Site Location Physical Address: 220 E Mirot Y Protechase Order No./Billing Reference MSS elevel	CLIENT DATE TIME MATRIX SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR HOURS SLUDGE)	P28-17 5-7-08 1715 Wata	Sampler's Signature Auched Nur Sampled By (Print Name)	Pointiend inviting, 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. Reinquished with the By (Signatura) Heinquished for (Signatura) Reinquished for Signatura) Reinquished for Signatura Method of Signatura	D Fed Ex D PS D Hand-delivered YPrism Field Service D Other NPDES: UST: GROUNDWATER: D Other D NC D SC D NC D SC D NC D SC D NC D SC D NC D SC D NC D SC O NC D SC D NC D SC D NC D SC O NC D SC D NC D SC D NC D SC O NC D SC D NC D SC D NC D SC O O SC D NC D SC D NC D SC O O SC D NC D SC D NC D SC O O SC D NC D SC D NC D SC O O SC D SC D SC O O SC D SC D SC O SC