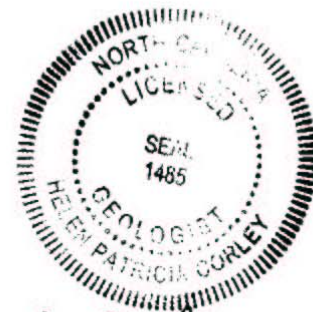




**NC Department of Transportation
Preliminary Site Assessment
State Project: R-4047
WBS Element: 34599.1.1**

**Thomas R. Morgan Property
Site #1
October 1, 2009**

**AMEC Earth and Environmental, Inc. of North Carolina
AMEC Project: 562114047**





Troy K. Holzschuh
Engineering Technician



Helen P. Corley, L.G.
Senior Project Manager



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Appendix 3	Laboratory Analytical Data

1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Notice to Proceed dated August 24, 2009, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for the Thomas R. Morgan Property (the Site) to be acquired for a road building project along Hwy 209 (Crabtree Road). Thomas R. Morgan owns the property, which is identified as Site #1 within the NCDOT R-4047 design project. The property is located on Paragon Parkway in Clyde, Haywood County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated August 24, 2009.

NCDOT contracted AMEC to perform a PSA on the Thomas R. Morgan Property due to usage of Underground Storage Tanks (UST) on the property. The property currently operates as a Shoney's Restaurant, Burger King, and Shell gas station with mini-market (the Site). The PSA was performed to determine if soils have been impacted by petroleum compounds as a result of past or present uses of the property within the proposed expanded right-of-way (ROW). The investigation was specifically completed to determine the presence or absence of petroleum hydrocarbons along the proposed ROW.

The following report describes our field investigations and results of chemical analyses. It includes the evaluation of the analytical data with regards to the presence or absence of soil contamination within the proposed right-of-way (ROW) and estimates the extent of soil contamination.

1.1 Site Location and History

The Thomas R. Morgan Property is located on the northwestern side of Paragon Parkway, approximately 200 feet northeast of Hwy 209 (Crabtree Road) in Clyde, Haywood County, North Carolina. It is located within the Sedimentary and Metamorphic sediments of the Blue Ridge Belt Physiographic Province of western North Carolina. Figure 1 shows the site location and vicinity.

AMEC studied the NCDENR UST Database for Incident Management and Registered Facilities and did not find any incidents reported for this site.

1.2 Site Description

Two single story buildings and an unattached canopy covering three pump islands occupy the Site. The proposed road widening will traverse the entire property of Site #1. Two separate tank beds exist. The primary tank bed, located east of the canopy, includes three underground storage tanks (UST); two 12,000 gallon with regular unleaded fuel and one 10,000 gallon with diesel fuel. A second tank bed with a 4,000 gallon kerosene UST is situated at the southern end of the gas station building, along with an associated dispenser. The UST were installed in 1997. No monitoring wells are located at this facility. Appendix 1 includes a photo log for Site 1.

The Property Northeast of the Site is an abandoned commercial property that was formerly Wal-Mart. Across Hwy 209 (Crabtree Road), to the west is a small motel. Northwest of the Property is a small residential area.

2.0 GEOLOGY

2.1 Regional Geology

The Thomas R. Morgan Property is located within the Biotite Gneiss group of the Blue Ridge Belt Physiographic Province of western North Carolina. The Biotite Gneiss group is migmatic, interlayered and gradational with biotite garnet gneiss and amphibolite.

2.2 Site Geology

Site geology was observed through the sampling of 11 shallow direct push probe soil borings (SB) onsite. Borings extended to a total depth of 15 feet below ground surface (bgs). Soils generally consisted of fine and medium-grained sandy silt. Boring logs are presented in Appendix 2. One boring was drilled into bedrock for the purpose of constructing a temporary monitoring well, S1-MW1. Bedrock was encountered at a depth of 28 feet bgs and a few unproductive fractures were observed down to 82 feet bgs. After leaving the borehole open for a few hours water slowly entered the borehole and the temporary well construction occurred. This boring log with construction information is also found in Appendix 2.

Saturated conditions (ground water) were not encountered in any of the borings performed but the equilibrated depth to water in the temporary well was 36.5 feet bgs.

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field sampling activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HSP) was modified to include the site-specific health and safety information necessary for the field activities. North Carolina-1-Call was contacted to facilitate the location of underground utilities in the vicinity of selected boring locations. Priority Underground Locating Services of Huntersville, North Carolina was coordinated by AMEC for utility locating services. SAEDACCO (South Atlantic Environmental Drilling and Construction Co.) of Fort Mill, South Carolina was retained by AMEC to perform the direct push sampling for soil borings and air rotary drilling for temporary well installations. AMEC subcontracted Mashburn's Concrete Inc to perform six cores to facilitate soil boring through concrete round cover in select areas. AMEC coordinated with Schnabel Engineering South (Schnabel) who performed two geophysical surveys (electromagnetic and ground penetrating radar) onsite during August. The geophysical results were reviewed and discussed at the completion of each survey. Prism Laboratories, Inc. was contacted for acquisition of sample bottles. Soil boring locations were focused around the tank beds and dispensers, with some boring locations placed north of the Shell Station to establish that those areas were free from soil contamination.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on August 5, 2009. The area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the subsurface investigation and the geophysical subcontractor was met in the field. Marking of boring locations occurred on August 26, 2009.

3.3 Well Survey

No well survey was performed as part of this PSA and no water supply wells were observed by AMEC on the site.

3.4 Soil Sampling

Soil boring occurred between August 26 and September 2, 2009 at Site 1. Nine direct push soil borings were conducted adjacent to tank beds, dispenser pumps and dispenser piping on Site #1. Figure 2 presents the Site Map with sample locations and identifications. These samples were located to optimize the likelihood of intercepting any potential soil contamination. The first boring (SB-1) was placed on the southern tip of the primary dispenser islands of Site #1. Subsequent borings SB-2 through SB-3 continued eastward toward the eastern edge of the primary dispenser islands. Sample SB-3 could not be obtained due to refusal at 3 feet. Borings SB-4 and SB-5 flanked the western and southern extents of the primary tank beds. Borings SB-9 and SB-10 were located near the kerosene dispenser and tank bed. SB-11 and SB-12 were sampled to the north of the tank beds in the part of the property situated between the Shell station and Shoney's Restaurant buildings.

No signs of staining, odor or significant Photo Ionization Detector (PID) reading were detected in any of the soil borings. Soil samples were collected in accordance with EPA protocols in laboratory-supplied containers. The soil samples for Total Petroleum Hydrocarbons (TPH) –Gasoline Range Organics (GRO) analysis were collected using the 5030 prep method with methanol preservation. Samples for TPH-Diesel Range Organics (DRO) analysis were collected in 4oz. glass containers. Once placed in the containers, the samples were labeled with the sample number, time of collection, date of collection, name of the collector, and the requested analysis. The samples were packed on ice, and then hand delivered to Prism Laboratories, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

3.5 Groundwater Sampling

One temporary groundwater well was installed on Site #1 on August 26, 2009 and abandoned on September 2, 2009. The well was installed west of the kerosene dispenser.

No signs of discoloration or odor were detected in the groundwater sample. The water sample was collected in accordance with EPA protocols in laboratory-supplied containers. The water sample for the 625 analysis was collected using 1 L unpreserved amber bottles. The sample for 601/602 analysis was collected in Volatile Organic Analysis bottles with hydrochloric acid preservation. Once placed in the containers, the samples were labeled

with the sample number, time of collection, date of collection, name of the collector, and the requested analysis. The samples were packed on ice, and then hand delivered to Prism Laboratories, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

4.0 RESULTS

4.1 Soil Sampling Results

AMEC conducted soil sampling at the Site on August 26 and September 2, 2009. The purpose of the sampling was to determine if releases of petroleum hydrocarbons had occurred, and if so, to estimate the volume of soil that might require special handling during construction activities. The sampling was accomplished using direct push methods accompanied by field screening for organic vapors with a PID. The laboratory results with PID readings are tabulated in Table 1 and shown on Figure 3.

A minimum of one soil sample was collected from each of the 11 completed soil borings from Site #1. When impacted soil was identified, additional soil samples were obtained. PID readings warranted that four additional samples be acquired. Analyses of soil samples for DRO and GRO did not indicate any detectable concentrations in any of the 15 samples. Copies of the original laboratory report and chain-of-custody documentation are included as Appendix 3.

4.2 Groundwater Sampling Results

AMEC conducted groundwater sampling at the Site on August 28, 2009. The purpose of the sampling was to determine if potential releases of petroleum hydrocarbons had impacted the uppermost groundwater body. Analysis of the groundwater sample for volatile and semi-volatile organic compounds did not indicate any detectable concentrations.

5.0 CONCLUSIONS

The following conclusions are based upon AMEC's evaluation of field observations and laboratory analyses of samples collected from the Site on August 26, August 28, and September 2, 2009.

- The property contains 4 UST that were installed in 1997.
- The commercial buildings at the Site are occupied by Shoney's Restaurant, Burger King and a Shell gas station with a convenience store.
- PID readings indicated the possibility of petroleum contaminants in 4 of 11 completed boring locations.
- Laboratory analyses of soil samples determined that GRO and DRO were not present above the 10 mg/kg reporting limit.

6.0 RECOMMENDATIONS

If NCDOT acquires the Morgan Property, the four UST and associated dispensers must be closed by removal per the UST guidelines, which requires additional sampling.

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Site 1, Morgan Property
Haywood County Property
Clyde, North Carolina

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (ft bgs)	PID READINGS	EPA Method 8015B	
				DRO (mg/kg)	GRO (mg/kg)
NC Action Levels				10	10
S1-SB1-1	8/26/2009	13 - 15	0.1	<9.9	<7.1
S1-SB1-2	8/26/2009	3 - 5	6.2	<9.4	<6.7
S1-SB2-1	8/26/2009	13 - 15	38.0	<9.5	<6.8
S1-SB2-2	8/26/2009	3 - 5	0.0	<9.1	<6.5
S1-SB4-1	8/26/2009	5 - 6	0.0	<9.9	<7.1
S1-SB5-1	9/2/2009	10 - 13	7.7	<9.7	<6.9
S1-SB5-2	9/2/2009	5 - 7	28.4	<8.5	<6.0
S1-SB6-1	9/2/2009	6 - 8	114.0	<8.7	<6.2
S1-SB6-2	9/2/2009	10 - 12	83.0	<9.4	<6.7
S1-SB7-1	9/2/2009	8 - 10	0.0	<8.3	<6.2
S1-SB8-1	9/2/2009	5 - 7	0.0	<8.6	<6.2
S1-SB9-1	9/2/2009	7 - 9	0.0	<9.5	<6.7
S1-SB10-1	9/2/2009	8 - 10	0.0	<8.7	<6.1
S1-SB11-1	9/2/2009	6 - 8	0.0	<8.9	<6.3
S1-SB12-1	9/2/2009	5 - 8	0.0	<10	<7.3

NOTES:

bgs = below ground surface

Bold Concentrations Exceed Action Levels

DRO = Diesel Range Organics

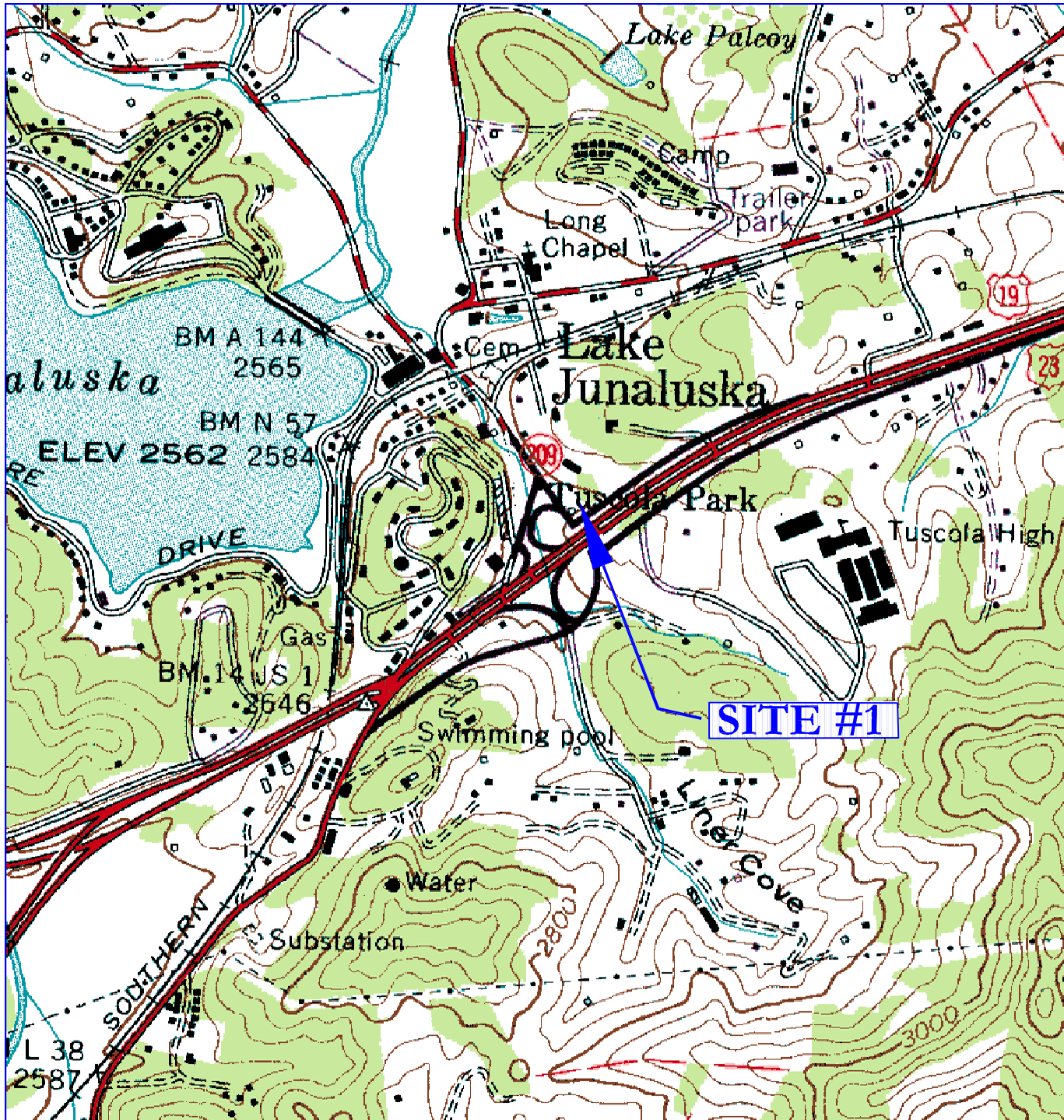
GRO = Gasoline Range Organics

Standards derived from the North Carolina UST Section Guidelines for Assessment and Corrective Action

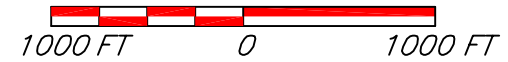
Table 2
Groundwater Sampling Analytical Results - VOCs, SVOCs
Site 1, Morgan Property
Haywood County Property
Clyde , North Carolina

SAMPLE ID	SAMPLE DATE	EPA Method 601/602	
		VOCs	SVOCs
NC Action Levels			
S1-MW1	8/28/2009	All analytes were below reporting limits.	
<p><u>NOTES:</u></p> <p>VOCs = volatile organic compounds SVOCs = semi-volatile organic compounds</p>			

FIGURES



SCALE

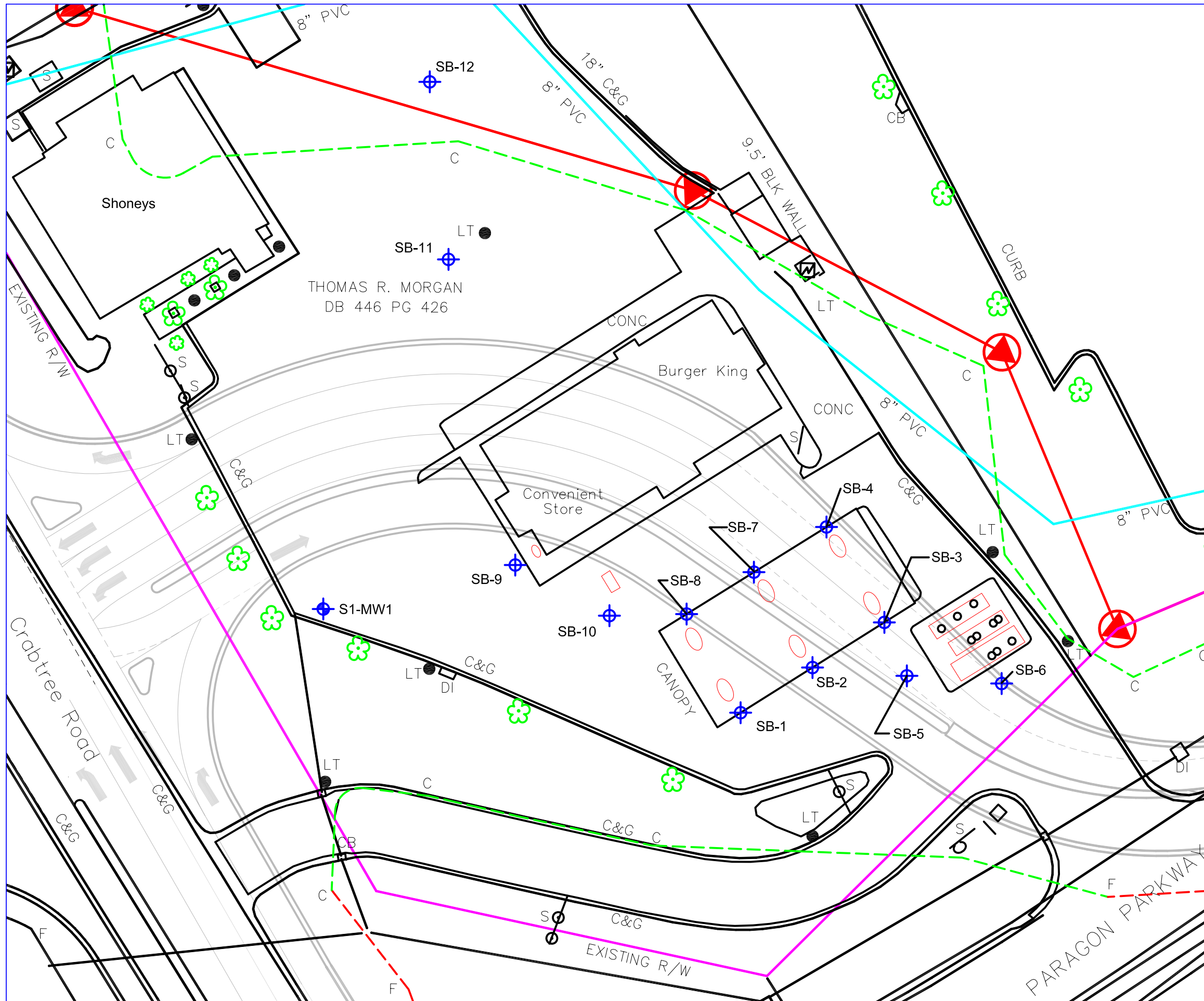


7.5 Minute Quadrangle
North Carolina, 1983
Photorevised 1993









VICINITY MAP

Site #1, Thomas R. Morgan Property
65 Paragon Parkway
Haywood County, NC

DRAWING NAME: J:\NCDOT\Haywood\FIG1		DATE: 9/29/09	
SCALE: 1 INCH = 1,000 FEET	DR TLH	CHK HPC	REV
PREPARED FOR: NC Department Of Transportation Geotechnical Unit WBS Element: 34599.1.1 TIP# R-4047			
Prepared By: amec 101 West Friendly Ave Suite 605 Greensboro, NC 27401 (336) 691-5398	Figure: Figure 1		



LEGEND

-  Proposed Right of Way
-  Existing Right of Way
-  Cut Line
-  Fill Line
-  Soil Boring Location August 2009
-  Temporary Monitoring Well Location August 2009
-  UST
-  Dispenser Islands

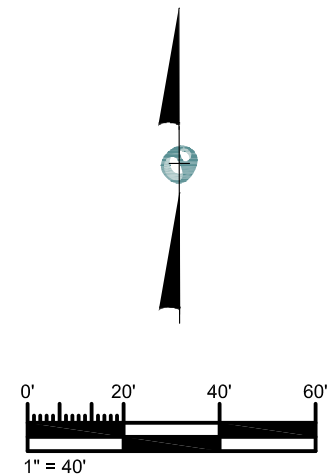
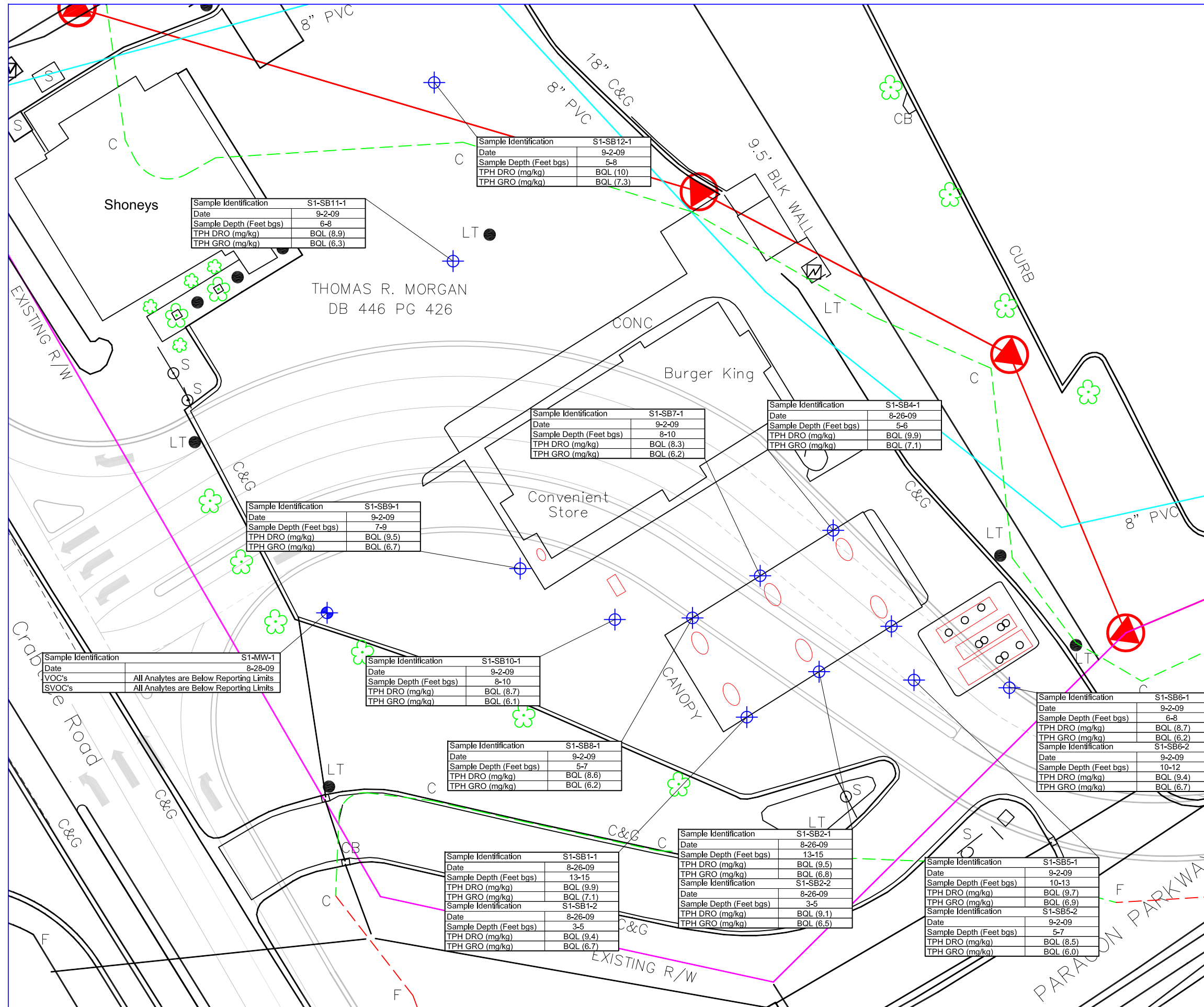


Figure 2
Site #1 Morgan Property, Site Map

NC Department of Transportation
Geotechnical Unit
WBS Element: 34599.1.1
TIP# R-4047



LEGEND

- Proposed Right of Way
- Existing Right of Way
- Cut Line
- Fill Line
- Soil Sample Location August/September 2009
- Temporary Monitoring Well Location August 2009
- UST
- Dispenser Islands

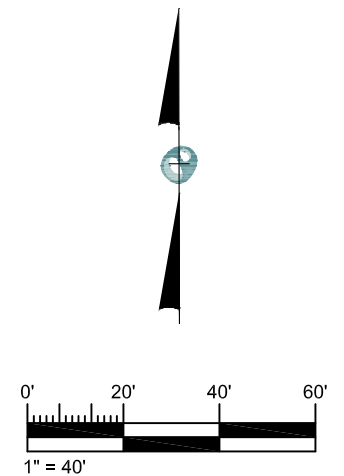


Figure 3
Site #1 Morgan Property, Site Map
With Analytical Detections

NC Department of Transportation
 Geotechnical Unit
 WBS Element: 34599.1.1
 TIP# R-4047

Sample Identification	S1-SB11-1
Date	9-2-09
Sample Depth (Feet bgs)	6-8
TPH DRO (mg/kg)	BQL (8.9)
TPH GRO (mg/kg)	BQL (6.3)

Sample Identification	S1-SB12-1
Date	9-2-09
Sample Depth (Feet bgs)	5-8
TPH DRO (mg/kg)	BQL (10)
TPH GRO (mg/kg)	BQL (7.3)

Sample Identification	S1-SB7-1
Date	9-2-09
Sample Depth (Feet bgs)	8-10
TPH DRO (mg/kg)	BQL (8.3)
TPH GRO (mg/kg)	BQL (6.2)

Sample Identification	S1-SB4-1
Date	8-26-09
Sample Depth (Feet bgs)	5-6
TPH DRO (mg/kg)	BQL (9.9)
TPH GRO (mg/kg)	BQL (7.1)

Sample Identification	S1-SB9-1
Date	9-2-09
Sample Depth (Feet bgs)	7-9
TPH DRO (mg/kg)	BQL (9.5)
TPH GRO (mg/kg)	BQL (6.7)

Sample Identification	S1-MW-1
Date	8-28-09
VOC's	All Analytes are Below Reporting Limits
SVOC's	All Analytes are Below Reporting Limits

Sample Identification	S1-SB10-1
Date	9-2-09
Sample Depth (Feet bgs)	8-10
TPH DRO (mg/kg)	BQL (8.7)
TPH GRO (mg/kg)	BQL (6.1)

Sample Identification	S1-SB8-1
Date	9-2-09
Sample Depth (Feet bgs)	5-7
TPH DRO (mg/kg)	BQL (8.6)
TPH GRO (mg/kg)	BQL (6.2)

Sample Identification	S1-SB6-1
Date	9-2-09
Sample Depth (Feet bgs)	6-8
TPH DRO (mg/kg)	BQL (8.7)
TPH GRO (mg/kg)	BQL (6.2)
Sample Identification	S1-SB6-2
Date	9-2-09
Sample Depth (Feet bgs)	10-12
TPH DRO (mg/kg)	BQL (9.4)
TPH GRO (mg/kg)	BQL (6.7)

Sample Identification	S1-SB1-1
Date	8-26-09
Sample Depth (Feet bgs)	13-15
TPH DRO (mg/kg)	BQL (9.9)
TPH GRO (mg/kg)	BQL (7.1)
Sample Identification	S1-SB1-2
Date	8-26-09
Sample Depth (Feet bgs)	3-5
TPH DRO (mg/kg)	BQL (9.4)
TPH GRO (mg/kg)	BQL (6.7)

Sample Identification	S1-SB2-1
Date	8-26-09
Sample Depth (Feet bgs)	13-15
TPH DRO (mg/kg)	BQL (9.5)
TPH GRO (mg/kg)	BQL (6.8)
Sample Identification	S1-SB2-2
Date	8-26-09
Sample Depth (Feet bgs)	3-5
TPH DRO (mg/kg)	BQL (9.1)
TPH GRO (mg/kg)	BQL (6.5)

Sample Identification	S1-SB5-1
Date	9-2-09
Sample Depth (Feet bgs)	10-13
TPH DRO (mg/kg)	BQL (9.7)
TPH GRO (mg/kg)	BQL (6.9)
Sample Identification	S1-SB5-2
Date	9-2-09
Sample Depth (Feet bgs)	5-7
TPH DRO (mg/kg)	BQL (8.5)
TPH GRO (mg/kg)	BQL (6.0)


APPENDIX 1

PHOTO LOG

Photo Log



Photo No. 1	Date: 08/5/09	
Direction Photo Taken: West		
Description: View of tank bed containing 10,000 – 12,000 and 20,000 UST's		

Photo No. 2	Date: 08/5/09	
Direction Photo Taken: Northeast		
Description: View of six dispenser islands		

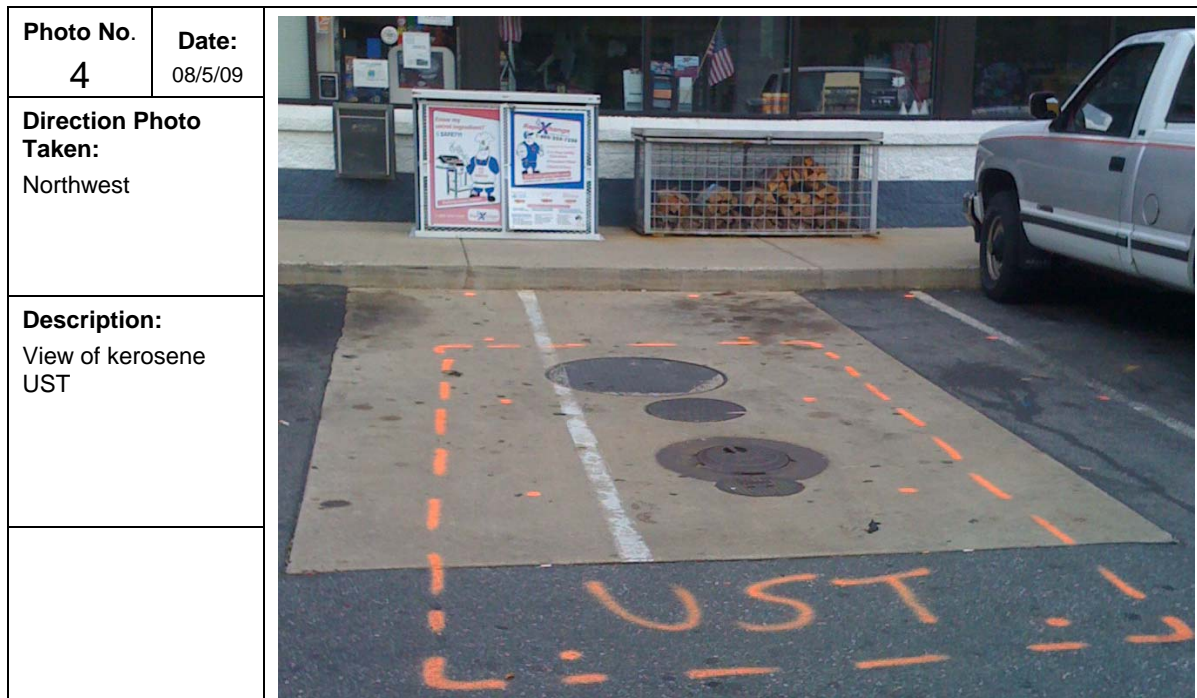


Photo No. 5	Date: 08/5/09	
Direction Photo Taken: South		
Description: View of back parking lot where SB-11 and SB-12 were placed		

Photo No. 6	Date: 08/25/09	
Direction Photo Taken: West		
Description: View of coring machine cutting through concrete		

Photo Log

PAGE 4 of 5



Photo No. 7	Date: 08/25/09	
Direction Photo Taken: Southwest		
Description: View of driller using a hand auger for the initial 5 feet.		

Photo No. 8	Date: 08/25/09	
Direction Photo Taken: Southeast		
Description: View of driller setting rig up over hand augered soil boring		

Photo Log

PAGE 5 of 5



Photo No. 9	Date: 08/27/09	
Direction Photo Taken: North		
Description: View of air rotary rig driller for monitoring well		

Photo No. 10	Date: 08/27/09	
Direction Photo Taken: Southeast		
Description: View of silts brought up by the air rotary rig.		

APPENDIX 2
BORING LOGS

APPENDIX 3
LABORATORY ANALYTICAL RESULTS



Case Narrative (Revised)

Date: 09/14/09
Company: N. C. Department of Transportation
Contact: Helen Corley
Address: c/o AMEC Earth & Environmental, Inc.
101 W. Friendly Ave. Suite 603
Greensboro, NC 27401

Client Project ID: NCDOT: Haywood County
Prism COC Group No: G0809749
Collection Date(s): 08/28/09
Lab Submittal Date(s): 08/28/09
Client Project Name Or No: WBS #34599.1.1

This is a revised report and supersedes our original laboratory report dated 9/12/09. Sample ID for S2-MW-2 was corrected.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 35 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 Q44380 LCS Di-n-octylphthalate: LCS recovery outside the control limits. This compound was not detected in samples associated with this batch. No further action was taken.

Analysis Note for Q44380 LCS Pyrene: LCS recovery outside the control limits. This compound was not detected in samples associated with this batch. No further action was taken.

Analysis Note for Q44380 MSD Dimethylphthalate: MSD recovery outside the control limits.

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

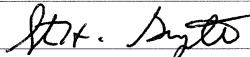
Wet Lab and Micro Analysis

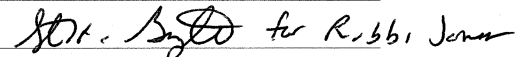
N/A

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

Data Reviewed by: Steven H. Guptill

Project Manager: Robbi A. Jones

Signature: 

Signature: 

Review Date: 09/14/09

Approval Date: 09/14/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.

#: Result outside of the QC limits.

DO: Compound diluted out.

E: Estimated concentration, calibration range exceeded.

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

H: Estimated concentration with a high bias.

L: Estimated concentration with a low bias.

M: A matrix effect is present.

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



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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-MW1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256469
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 8:30
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:11	erussell	Q44354
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:11	erussell	Q44354
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.13	1	601/602	09/08/09 16:11	erussell	Q44354
1,1-Dichloroethane	BRL	µg/L	1.0	0.14	1	601/602	09/08/09 16:11	erussell	Q44354
1,1-Dichloroethene	BRL	µg/L	1.0	0.19	1	601/602	09/08/09 16:11	erussell	Q44354
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:11	erussell	Q44354
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.096	1	601/602	09/08/09 16:11	erussell	Q44354
1,2-Dichloroethane	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:11	erussell	Q44354
1,2-Dichloropropane	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:11	erussell	Q44354
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.17	1	601/602	09/08/09 16:11	erussell	Q44354
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:11	erussell	Q44354
Benzene	BRL	µg/L	0.50	0.19	1	601/602	09/08/09 16:11	erussell	Q44354
Bromodichloromethane	BRL	µg/L	1.0	0.11	1	601/602	09/08/09 16:11	erussell	Q44354
Bromoform	BRL	µg/L	1.0	0.094	1	601/602	09/08/09 16:11	erussell	Q44354
Bromomethane	BRL	µg/L	5.0	0.087	1	601/602	09/08/09 16:11	erussell	Q44354
Carbon tetrachloride	BRL	µg/L	1.0	0.23	1	601/602	09/08/09 16:11	erussell	Q44354
Chlorobenzene	BRL	µg/L	1.0	0.37	1	601/602	09/08/09 16:11	erussell	Q44354
Chloroethane	BRL	µg/L	5.0	0.25	1	601/602	09/08/09 16:11	erussell	Q44354
Chloroform	BRL	µg/L	1.0	0.18	1	601/602	09/08/09 16:11	erussell	Q44354
Chloromethane	BRL	µg/L	5.0	0.24	1	601/602	09/08/09 16:11	erussell	Q44354
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.51	1	601/602	09/08/09 16:11	erussell	Q44354
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:11	erussell	Q44354
Dibromochloromethane	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:11	erussell	Q44354
Dichlorodifluoromethane	BRL	µg/L	5.0	0.21	1	601/602	09/08/09 16:11	erussell	Q44354
Ethylbenzene	BRL	µg/L	1.0	0.28	1	601/602	09/08/09 16:11	erussell	Q44354
Isopropyl ether (IPE)	BRL	µg/L	5.0	0.18	1	601/602	09/08/09 16:11	erussell	Q44354
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	601/602	09/08/09 16:11	erussell	Q44354

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-MW1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256469
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 8:30
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	5.0	0.17	1	601/602	09/08/09 16:11	erussell	Q44354
Methylene Chloride	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:11	erussell	Q44354
Naphthalene	BRL	µg/L	1.0	0.63	1	601/602	09/08/09 16:11	erussell	Q44354
o-Xylene	BRL	µg/L	1.0	0.31	1	601/602	09/08/09 16:11	erussell	Q44354
Tetrachloroethene	BRL	µg/L	1.0	0.26	1	601/602	09/08/09 16:11	erussell	Q44354
Toluene	BRL	µg/L	1.0	0.23	1	601/602	09/08/09 16:11	erussell	Q44354
trans-1,2-Dichloroethene	BRL	µg/L	1.0	0.17	1	601/602	09/08/09 16:11	erussell	Q44354
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.19	1	601/602	09/08/09 16:11	erussell	Q44354
Trichloroethene	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:11	erussell	Q44354
Trichlorofluoromethane	BRL	µg/L	5.0	0.24	1	601/602	09/08/09 16:11	erussell	Q44354
Vinyl chloride	BRL	µg/L	1.0	0.33	1	601/602	09/08/09 16:11	erussell	Q44354

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	97	56 - 148
1,4-Difluorobenzene-PID	104	69 - 140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.8	1.7	1	625	09/09/09 10:31	rselph	Q44380
1,2-Dichlorobenzene	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
1,3-Dichlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 10:31	rselph	Q44380
1,4-Dichlorobenzene	BRL	µg/L	9.8	1.8	1	625	09/09/09 10:31	rselph	Q44380
2,4,5-Trichlorophenol	BRL	µg/L	9.8	2.6	1	625	09/09/09 10:31	rselph	Q44380
2,4,6-Trichlorophenol	BRL	µg/L	9.8	3.1	1	625	09/09/09 10:31	rselph	Q44380
2,4-Dichlorophenol	BRL	µg/L	9.8	1.5	1	625	09/09/09 10:31	rselph	Q44380
2,4-Dimethylphenol	BRL	µg/L	9.8	2.4	1	625	09/09/09 10:31	rselph	Q44380
2,4-Dinitrophenol	BRL	µg/L	49	1.1	1	625	09/09/09 10:31	rselph	Q44380
2,4-Dinitrotoluene	BRL	µg/L	9.8	3.9	1	625	09/09/09 10:31	rselph	Q44380
2,6-Dinitrotoluene	BRL	µg/L	9.8	2.8	1	625	09/09/09 10:31	rselph	Q44380

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-MW1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256469
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 8:30
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloronaphthalene	BRL	µg/L	9.8	2.9	1	625	09/09/09 10:31	rselph	Q44380
2-Chlorophenol	BRL	µg/L	9.8	1.7	1	625	09/09/09 10:31	rselph	Q44380
2-Methylphenol	BRL	µg/L	9.8	1.8	1	625	09/09/09 10:31	rselph	Q44380
2-Nitrophenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 10:31	rselph	Q44380
3&4-Methylphenol	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
3,3'-Dichlorobenzidine	BRL	µg/L	49	2.5	1	625	09/09/09 10:31	rselph	Q44380
4,6-Dinitro-2-methylphenol	BRL	µg/L	49	1.8	1	625	09/09/09 10:31	rselph	Q44380
4-Bromophenylphenylether	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
4-Chloro-3-methylphenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 10:31	rselph	Q44380
4-Chlorophenylphenylether	BRL	µg/L	9.8	2.8	1	625	09/09/09 10:31	rselph	Q44380
4-Nitrophenol	BRL	µg/L	49	0.74	1	625	09/09/09 10:31	rselph	Q44380
Acenaphthene	BRL	µg/L	9.8	4.1	1	625	09/09/09 10:31	rselph	Q44380
Acenaphthylene	BRL	µg/L	9.8	2.7	1	625	09/09/09 10:31	rselph	Q44380
Anthracene	BRL	µg/L	9.8	1.7	1	625	09/09/09 10:31	rselph	Q44380
Benzo(a)anthracene	BRL	µg/L	9.8	2.1	1	625	09/09/09 10:31	rselph	Q44380
Benzo(a)pyrene	BRL	µg/L	9.8	1.6	1	625	09/09/09 10:31	rselph	Q44380
Benzo(b)fluoranthene	BRL	µg/L	9.8	1.2	1	625	09/09/09 10:31	rselph	Q44380
Benzo(g,h,i)perylene	BRL	µg/L	9.8	2.1	1	625	09/09/09 10:31	rselph	Q44380
Benzo(k)fluoranthene	BRL	µg/L	9.8	2.6	1	625	09/09/09 10:31	rselph	Q44380
Bis(2-chloroethoxy)methane	BRL	µg/L	9.8	2.3	1	625	09/09/09 10:31	rselph	Q44380
Bis(2-chloroethyl)ether	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.8	2.3	1	625	09/09/09 10:31	rselph	Q44380
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.8	2.7	1	625	09/09/09 10:31	rselph	Q44380
Butylbenzylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
Chrysene	BRL	µg/L	9.8	3.0	1	625	09/09/09 10:31	rselph	Q44380
Di-n-butylphthalate	BRL	µg/L	9.8	1.5	1	625	09/09/09 10:31	rselph	Q44380
Di-n-octylphthalate	BRL	µg/L	9.8	2.5	1	625	09/09/09 10:31	rselph	Q44380

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-MW1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256469
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 8:30
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibenzo(a,h)anthracene	BRL	µg/L	9.8	2.2	1	625	09/09/09 10:31	rselph	Q44380
Dibenzofuran	BRL	µg/L	9.8	3.5	1	625	09/09/09 10:31	rselph	Q44380
Diethylphthalate	BRL	µg/L	9.8	2.1	1	625	09/09/09 10:31	rselph	Q44380
Dimethylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 10:31	rselph	Q44380
Fluoranthene	BRL	µg/L	9.8	1.5	1	625	09/09/09 10:31	rselph	Q44380
Fluorene	BRL	µg/L	9.8	4.3	1	625	09/09/09 10:31	rselph	Q44380
Hexachlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 10:31	rselph	Q44380
Hexachlorobutadiene	BRL	µg/L	9.8	1.7	1	625	09/09/09 10:31	rselph	Q44380
Hexachlorocyclopentadiene	BRL	µg/L	9.8	2.0	1	625	09/09/09 10:31	rselph	Q44380
Hexachloroethane	BRL	µg/L	9.8	2.2	1	625	09/09/09 10:31	rselph	Q44380
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.8	3.6	1	625	09/09/09 10:31	rselph	Q44380
Isophorone	BRL	µg/L	9.8	2.6	1	625	09/09/09 10:31	rselph	Q44380
N-Nitrosodi-n-propylamine	BRL	µg/L	9.8	2.2	1	625	09/09/09 10:31	rselph	Q44380
Naphthalene	BRL	µg/L	9.8	1.6	1	625	09/09/09 10:31	rselph	Q44380
Nitrobenzene	BRL	µg/L	9.8	2.1	1	625	09/09/09 10:31	rselph	Q44380
Pentachlorophenol	BRL	µg/L	9.8	2.0	1	625	09/09/09 10:31	rselph	Q44380
Phenanthrene	BRL	µg/L	9.8	1.2	1	625	09/09/09 10:31	rselph	Q44380
Phenol	BRL	µg/L	9.8	0.57	1	625	09/09/09 10:31	rselph	Q44380
Pyrene	BRL	µg/L	9.8	1.8	1	625	09/09/09 10:31	rselph	Q44380

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NC Certification No. 402
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Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	BRL	µg/L	10	2.1	10	601/602	09/09/09 3:10	erussell	Q44354
1,1,2,2-Tetrachloroethane	BRL	µg/L	10	2.1	10	601/602	09/09/09 3:10	erussell	Q44354
1,1,2-Trichloroethane	BRL	µg/L	10	1.3	10	601/602	09/09/09 3:10	erussell	Q44354
1,1-Dichloroethane	BRL	µg/L	10	1.4	10	601/602	09/09/09 3:10	erussell	Q44354
1,1-Dichloroethene	BRL	µg/L	10	1.9	10	601/602	09/09/09 3:10	erussell	Q44354
1,2-Dibromoethane (EDB)	BRL	µg/L	10	1.2	10	601/602	09/09/09 3:10	erussell	Q44354
1,2-Dichlorobenzene	BRL	µg/L	10	0.96	10	601/602	09/09/09 3:10	erussell	Q44354
1,2-Dichloroethane	BRL	µg/L	10	1.6	10	601/602	09/09/09 3:10	erussell	Q44354
1,2-Dichloropropane	BRL	µg/L	10	1.6	10	601/602	09/09/09 3:10	erussell	Q44354
1,3-Dichlorobenzene	BRL	µg/L	10	1.8	10	601/602	09/09/09 3:10	erussell	Q44354
1,4-Dichlorobenzene	BRL	µg/L	10	1.2	10	601/602	09/09/09 3:10	erussell	Q44354
Benzene	21	µg/L	5.0	1.9	10	601/602	09/09/09 3:10	erussell	Q44354
Bromodichloromethane	BRL	µg/L	10	1.1	10	601/602	09/09/09 3:10	erussell	Q44354
Bromoform	BRL	µg/L	10	0.94	10	601/602	09/09/09 3:10	erussell	Q44354
Bromomethane	BRL	µg/L	50	0.87	10	601/602	09/09/09 3:10	erussell	Q44354
Carbon tetrachloride	BRL	µg/L	10	2.3	10	601/602	09/09/09 3:10	erussell	Q44354
Chlorobenzene	BRL	µg/L	10	3.7	10	601/602	09/09/09 3:10	erussell	Q44354
Chloroethane	BRL	µg/L	50	2.5	10	601/602	09/09/09 3:10	erussell	Q44354
Chloroform	BRL	µg/L	10	1.8	10	601/602	09/09/09 3:10	erussell	Q44354
Chloromethane	BRL	µg/L	50	2.4	10	601/602	09/09/09 3:10	erussell	Q44354
cis-1,2-Dichloroethene	BRL	µg/L	10	5.1	10	601/602	09/09/09 3:10	erussell	Q44354
cis-1,3-Dichloropropene	BRL	µg/L	10	1.6	10	601/602	09/09/09 3:10	erussell	Q44354
Dibromochloromethane	BRL	µg/L	10	1.2	10	601/602	09/09/09 3:10	erussell	Q44354
Dichlorodifluoromethane	BRL	µg/L	50	2.1	10	601/602	09/09/09 3:10	erussell	Q44354
Ethylbenzene	210	µg/L	10	2.8	10	601/602	09/09/09 3:10	erussell	Q44354
Isopropyl ether (IPE)	BRL	µg/L	50	1.8	10	601/602	09/09/09 3:10	erussell	Q44354
m,p-Xylenes	680	µg/L	20	5.0	10	601/602	09/09/09 3:10	erussell	Q44354

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Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	50	1.7	10	601/602	09/09/09 3:10	erussell	Q44354
Methylene Chloride	BRL	µg/L	10	1.2	10	601/602	09/09/09 3:10	erussell	Q44354
Naphthalene	45	µg/L	10	6.3	10	601/602	09/09/09 3:10	erussell	Q44354
o-Xylene	350	µg/L	10	3.1	10	601/602	09/09/09 3:10	erussell	Q44354
Tetrachloroethene	BRL	µg/L	10	2.6	10	601/602	09/09/09 3:10	erussell	Q44354
Toluene	1400	µg/L	100	23	100	601/602	09/10/09 9:40	erussell	Q44354
trans-1,2-Dichloroethene	BRL	µg/L	10	1.7	10	601/602	09/09/09 3:10	erussell	Q44354
trans-1,3-Dichloropropene	BRL	µg/L	10	1.9	10	601/602	09/09/09 3:10	erussell	Q44354
Trichloroethene	BRL	µg/L	10	2.1	10	601/602	09/09/09 3:10	erussell	Q44354
Trichlorofluoromethane	BRL	µg/L	50	2.5	10	601/602	09/09/09 3:10	erussell	Q44354
Vinyl chloride	BRL	µg/L	10	3.3	10	601/602	09/09/09 3:10	erussell	Q44354

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	98	56 - 148
1,4-Difluorobenzene-PID	99	69 - 140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:23	rselph	Q44380
1,2-Dichlorobenzene	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
1,3-Dichlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:23	rselph	Q44380
1,4-Dichlorobenzene	BRL	µg/L	9.8	1.8	1	625	09/09/09 12:23	rselph	Q44380
2,4,5-Trichlorophenol	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:23	rselph	Q44380
2,4,6-Trichlorophenol	BRL	µg/L	9.8	3.1	1	625	09/09/09 12:23	rselph	Q44380
2,4-Dichlorophenol	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:23	rselph	Q44380
2,4-Dimethylphenol	BRL	µg/L	9.8	2.4	1	625	09/09/09 12:23	rselph	Q44380
2,4-Dinitrophenol	BRL	µg/L	49	1.1	1	625	09/09/09 12:23	rselph	Q44380
2,4-Dinitrotoluene	BRL	µg/L	9.8	3.9	1	625	09/09/09 12:23	rselph	Q44380
2,6-Dinitrotoluene	BRL	µg/L	9.8	2.8	1	625	09/09/09 12:23	rselph	Q44380

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Laboratory Report

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N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloronaphthalene	BRL	µg/L	9.8	2.9	1	625	09/09/09 12:23	rselph	Q44380
2-Chlorophenol	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:23	rselph	Q44380
2-Methylphenol	6.0 J	µg/L	9.8	1.8	1	625	09/09/09 12:23	rselph	Q44380
2-Nitrophenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:23	rselph	Q44380
3&4-Methylphenol	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
3,3'-Dichlorobenzidine	BRL	µg/L	49	2.5	1	625	09/09/09 12:23	rselph	Q44380
4,6-Dinitro-2-methylphenol	BRL	µg/L	49	1.8	1	625	09/09/09 12:23	rselph	Q44380
4-Bromophenylphenylether	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
4-Chloro-3-methylphenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:23	rselph	Q44380
4-Chlorophenylphenylether	BRL	µg/L	9.8	2.8	1	625	09/09/09 12:23	rselph	Q44380
4-Nitrophenol	BRL	µg/L	49	0.74	1	625	09/09/09 12:23	rselph	Q44380
Acenaphthene	BRL	µg/L	9.8	4.1	1	625	09/09/09 12:23	rselph	Q44380
Acenaphthylene	BRL	µg/L	9.8	2.7	1	625	09/09/09 12:23	rselph	Q44380
Anthracene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:23	rselph	Q44380
Benzo(a)anthracene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:23	rselph	Q44380
Benzo(a)pyrene	BRL	µg/L	9.8	1.6	1	625	09/09/09 12:23	rselph	Q44380
Benzo(b)fluoranthene	BRL	µg/L	9.8	1.2	1	625	09/09/09 12:23	rselph	Q44380
Benzo(g,h,i)perylene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:23	rselph	Q44380
Benzo(k)fluoranthene	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:23	rselph	Q44380
Bis(2-chloroethoxy)methane	BRL	µg/L	9.8	2.3	1	625	09/09/09 12:23	rselph	Q44380
Bis(2-chloroethyl)ether	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.8	2.3	1	625	09/09/09 12:23	rselph	Q44380
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.8	2.7	1	625	09/09/09 12:23	rselph	Q44380
Butylbenzylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
Chrysene	BRL	µg/L	9.8	3.0	1	625	09/09/09 12:23	rselph	Q44380
Di-n-butylphthalate	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:23	rselph	Q44380
Di-n-octylphthalate	BRL	µg/L	9.8	2.5	1	625	09/09/09 12:23	rselph	Q44380

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibenzo(a,h)anthracene	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:23	rselph	Q44380
Dibenzofuran	BRL	µg/L	9.8	3.5	1	625	09/09/09 12:23	rselph	Q44380
Diethylphthalate	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:23	rselph	Q44380
Dimethylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:23	rselph	Q44380
Fluoranthene	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:23	rselph	Q44380
Fluorene	BRL	µg/L	9.8	4.3	1	625	09/09/09 12:23	rselph	Q44380
Hexachlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:23	rselph	Q44380
Hexachlorobutadiene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:23	rselph	Q44380
Hexachlorocyclopentadiene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:23	rselph	Q44380
Hexachloroethane	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:23	rselph	Q44380
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.8	3.6	1	625	09/09/09 12:23	rselph	Q44380
Isophorone	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:23	rselph	Q44380
N-Nitrosodi-n-propylamine	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:23	rselph	Q44380
Naphthalene	BRL	µg/L	9.8	1.6	1	625	09/09/09 12:23	rselph	Q44380
Nitrobenzene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:23	rselph	Q44380
Pentachlorophenol	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:23	rselph	Q44380
Phenanthrene	BRL	µg/L	9.8	1.2	1	625	09/09/09 12:23	rselph	Q44380
Phenol	BRL	µg/L	9.8	0.57	1	625	09/09/09 12:23	rselph	Q44380
Pyrene	BRL	µg/L	9.8	1.8	1	625	09/09/09 12:23	rselph	Q44380

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Laboratory Report

09/14/09

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 101 W. Friendly Ave. Suite 603
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Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				1020 mL /	1 mL	625	09/04/09 8:00	smanivanh	P25512

Surrogate	% Recovery	Control Limits
Terphenyl-d14	96	10 - 154
Phenol-d5	20	10 - 48
Nitrobenzene-d5	86	22 - 103
2-Fluorophenol	31	10 - 59
2-Fluorobiphenyl	94	29 - 112
2,4,6-Tribromophenol	103	27 - 125

TIC's By 625	Est. Conc	Units
Unknown aromatic	49	ug/L
Unknown aromatic	25	ug/L
Trimethylbenzene	38	ug/L
Trimethylbenzene	150	ug/L
Toluene	260	ug/L
m&p-Xylene	140	ug/L
Indane	22	ug/L
Ethylmethylbenzene	65	ug/L
Ethylmethylbenzene	59	ug/L
Ethylmethylbenzene	120	ug/L

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 Project No.: WBS #34599.1.1 Prism Sample ID: 256470
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 9:15
 Time Submitted: 08/28/09 14:02

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

09/14/09

N. C. Department of Transportation
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 c/o AMEC Earth & Environmental, Inc.
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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-2
 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/09/09 3:57	erussell	Q44354
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/09/09 3:57	erussell	Q44354
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.13	1	601/602	09/09/09 3:57	erussell	Q44354
1,1-Dichloroethane	BRL	µg/L	1.0	0.14	1	601/602	09/09/09 3:57	erussell	Q44354
1,1-Dichloroethene	BRL	µg/L	1.0	0.19	1	601/602	09/09/09 3:57	erussell	Q44354
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.12	1	601/602	09/09/09 3:57	erussell	Q44354
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.096	1	601/602	09/09/09 3:57	erussell	Q44354
1,2-Dichloroethane	BRL	µg/L	1.0	0.16	1	601/602	09/09/09 3:57	erussell	Q44354
1,2-Dichloropropane	BRL	µg/L	1.0	0.16	1	601/602	09/09/09 3:57	erussell	Q44354
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.17	1	601/602	09/09/09 3:57	erussell	Q44354
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	601/602	09/09/09 3:57	erussell	Q44354
Benzene	15	µg/L	0.50	0.19	1	601/602	09/09/09 3:57	erussell	Q44354
Bromodichloromethane	BRL	µg/L	1.0	0.11	1	601/602	09/09/09 3:57	erussell	Q44354
Bromoform	BRL	µg/L	1.0	0.094	1	601/602	09/09/09 3:57	erussell	Q44354
Bromomethane	BRL	µg/L	5.0	0.087	1	601/602	09/09/09 3:57	erussell	Q44354
Carbon tetrachloride	BRL	µg/L	1.0	0.23	1	601/602	09/09/09 3:57	erussell	Q44354
Chlorobenzene	BRL	µg/L	1.0	0.37	1	601/602	09/09/09 3:57	erussell	Q44354
Chloroethane	BRL	µg/L	5.0	0.25	1	601/602	09/09/09 3:57	erussell	Q44354
Chloroform	BRL	µg/L	1.0	0.18	1	601/602	09/09/09 3:57	erussell	Q44354
Chloromethane	BRL	µg/L	5.0	0.24	1	601/602	09/09/09 3:57	erussell	Q44354
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.51	1	601/602	09/09/09 3:57	erussell	Q44354
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.16	1	601/602	09/09/09 3:57	erussell	Q44354
Dibromochloromethane	BRL	µg/L	1.0	0.12	1	601/602	09/09/09 3:57	erussell	Q44354
Dichlorodifluoromethane	BRL	µg/L	5.0	0.21	1	601/602	09/09/09 3:57	erussell	Q44354
Ethylbenzene	29	µg/L	1.0	0.28	1	601/602	09/09/09 3:57	erussell	Q44354
Isopropyl ether (IPE)	BRL	µg/L	5.0	0.18	1	601/602	09/09/09 3:57	erussell	Q44354
m,p-Xylenes	34	µg/L	2.0	0.51	1	601/602	09/09/09 3:57	erussell	Q44354

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Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-2
 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	5.0	0.17	1	601/602	09/09/09 3:57	erussell	Q44354
Methylene Chloride	BRL	µg/L	1.0	0.12	1	601/602	09/09/09 3:57	erussell	Q44354
Naphthalene	20	µg/L	1.0	0.63	1	601/602	09/09/09 3:57	erussell	Q44354
o-Xylene	10	µg/L	1.0	0.31	1	601/602	09/09/09 3:57	erussell	Q44354
Tetrachloroethene	BRL	µg/L	1.0	0.26	1	601/602	09/09/09 3:57	erussell	Q44354
Toluene	5.9	µg/L	1.0	0.23	1	601/602	09/09/09 3:57	erussell	Q44354
trans-1,2-Dichloroethene	BRL	µg/L	1.0	0.17	1	601/602	09/09/09 3:57	erussell	Q44354
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.19	1	601/602	09/09/09 3:57	erussell	Q44354
Trichloroethene	BRL	µg/L	1.0	0.21	1	601/602	09/09/09 3:57	erussell	Q44354
Trichlorofluoromethane	BRL	µg/L	5.0	0.24	1	601/602	09/09/09 3:57	erussell	Q44354
Vinyl chloride	BRL	µg/L	1.0	0.33	1	601/602	09/09/09 3:57	erussell	Q44354

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	103	56 - 148
1,4-Difluorobenzene-PID	116	69 - 140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:51	rselph	Q44380
1,2-Dichlorobenzene	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
1,3-Dichlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:51	rselph	Q44380
1,4-Dichlorobenzene	BRL	µg/L	9.8	1.8	1	625	09/09/09 12:51	rselph	Q44380
2,4,5-Trichlorophenol	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:51	rselph	Q44380
2,4,6-Trichlorophenol	BRL	µg/L	9.8	3.1	1	625	09/09/09 12:51	rselph	Q44380
2,4-Dichlorophenol	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:51	rselph	Q44380
2,4-Dimethylphenol	BRL	µg/L	9.8	2.4	1	625	09/09/09 12:51	rselph	Q44380
2,4-Dinitrophenol	BRL	µg/L	49	1.1	1	625	09/09/09 12:51	rselph	Q44380
2,4-Dinitrotoluene	BRL	µg/L	9.8	3.9	1	625	09/09/09 12:51	rselph	Q44380
2,6-Dinitrotoluene	BRL	µg/L	9.8	2.8	1	625	09/09/09 12:51	rselph	Q44380

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Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-2
 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloronaphthalene	BRL	µg/L	9.8	2.9	1	625	09/09/09 12:51	rselph	Q44380
2-Chlorophenol	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:51	rselph	Q44380
2-Methylphenol	BRL	µg/L	9.8	1.8	1	625	09/09/09 12:51	rselph	Q44380
2-Nitrophenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:51	rselph	Q44380
3&4-Methylphenol	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
3,3'-Dichlorobenzidine	BRL	µg/L	49	2.5	1	625	09/09/09 12:51	rselph	Q44380
4,6-Dinitro-2-methylphenol	BRL	µg/L	49	1.8	1	625	09/09/09 12:51	rselph	Q44380
4-Bromophenylphenylether	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
4-Chloro-3-methylphenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:51	rselph	Q44380
4-Chlorophenylphenylether	BRL	µg/L	9.8	2.8	1	625	09/09/09 12:51	rselph	Q44380
4-Nitrophenol	BRL	µg/L	49	0.74	1	625	09/09/09 12:51	rselph	Q44380
Acenaphthene	BRL	µg/L	9.8	4.1	1	625	09/09/09 12:51	rselph	Q44380
Acenaphthylene	BRL	µg/L	9.8	2.7	1	625	09/09/09 12:51	rselph	Q44380
Anthracene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:51	rselph	Q44380
Benzo(a)anthracene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:51	rselph	Q44380
Benzo(a)pyrene	BRL	µg/L	9.8	1.6	1	625	09/09/09 12:51	rselph	Q44380
Benzo(b)fluoranthene	BRL	µg/L	9.8	1.2	1	625	09/09/09 12:51	rselph	Q44380
Benzo(g,h,i)perylene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:51	rselph	Q44380
Benzo(k)fluoranthene	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:51	rselph	Q44380
Bis(2-chloroethoxy)methane	BRL	µg/L	9.8	2.3	1	625	09/09/09 12:51	rselph	Q44380
Bis(2-chloroethyl)ether	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.8	2.3	1	625	09/09/09 12:51	rselph	Q44380
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.8	2.7	1	625	09/09/09 12:51	rselph	Q44380
Butylbenzylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
Chrysene	BRL	µg/L	9.8	3.0	1	625	09/09/09 12:51	rselph	Q44380
Di-n-butylphthalate	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:51	rselph	Q44380
Di-n-octylphthalate	BRL	µg/L	9.8	2.5	1	625	09/09/09 12:51	rselph	Q44380

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Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-2
 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibenzo(a,h)anthracene	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:51	rselph	Q44380
Dibenzofuran	BRL	µg/L	9.8	3.5	1	625	09/09/09 12:51	rselph	Q44380
Diethylphthalate	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:51	rselph	Q44380
Dimethylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 12:51	rselph	Q44380
Fluoranthene	BRL	µg/L	9.8	1.5	1	625	09/09/09 12:51	rselph	Q44380
Fluorene	BRL	µg/L	9.8	4.3	1	625	09/09/09 12:51	rselph	Q44380
Hexachlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:51	rselph	Q44380
Hexachlorobutadiene	BRL	µg/L	9.8	1.7	1	625	09/09/09 12:51	rselph	Q44380
Hexachlorocyclopentadiene	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:51	rselph	Q44380
Hexachloroethane	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:51	rselph	Q44380
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.8	3.6	1	625	09/09/09 12:51	rselph	Q44380
Isophorone	BRL	µg/L	9.8	2.6	1	625	09/09/09 12:51	rselph	Q44380
N-Nitrosodi-n-propylamine	BRL	µg/L	9.8	2.2	1	625	09/09/09 12:51	rselph	Q44380
Naphthalene	11	µg/L	9.8	1.6	1	625	09/09/09 12:51	rselph	Q44380
Nitrobenzene	BRL	µg/L	9.8	2.1	1	625	09/09/09 12:51	rselph	Q44380
Pentachlorophenol	BRL	µg/L	9.8	2.0	1	625	09/09/09 12:51	rselph	Q44380
Phenanthrene	BRL	µg/L	9.8	1.2	1	625	09/09/09 12:51	rselph	Q44380
Phenol	BRL	µg/L	9.8	0.57	1	625	09/09/09 12:51	rselph	Q44380
Pyrene	BRL	µg/L	9.8	1.8	1	625	09/09/09 12:51	rselph	Q44380

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S2-MW-2
 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				1020 mL /	1 mL	625	09/04/09 8:00	smanivanh	P25512

Surrogate	% Recovery	Control Limits
Terphenyl-d14	116	10 - 154
Phenol-d5	27	10 - 48
Nitrobenzene-d5	95	22 - 103
2-Fluorophenol	38	10 - 59
2-Fluorobiphenyl	104	29 - 112
2,4,6-Tribromophenol	91	27 - 125

TIC's By 625	Est.Conc	Units
Unknown aromatic	85	ug/L
Unknown aromatic	24	ug/L
Unknown aromatic	23	ug/L
Unknown aromatic	19	ug/L
Unknown	14	ug/L
Unknown	13	ug/L
Trimethylbenzene	17	ug/L
Indane	23	ug/L
Ethylbenzene	23	ug/L
Diethylbenzene	27	ug/L

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 Project No.: WBS #34599.1.1 Prism Sample ID: 256471
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:15
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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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
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 NC Drinking Water Cert. No. 37735

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: SW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256472
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:45
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:58	erussell	Q44354
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:58	erussell	Q44354
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.13	1	601/602	09/08/09 16:58	erussell	Q44354
1,1-Dichloroethane	BRL	µg/L	1.0	0.14	1	601/602	09/08/09 16:58	erussell	Q44354
1,1-Dichloroethene	BRL	µg/L	1.0	0.19	1	601/602	09/08/09 16:58	erussell	Q44354
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:58	erussell	Q44354
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.096	1	601/602	09/08/09 16:58	erussell	Q44354
1,2-Dichloroethane	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:58	erussell	Q44354
1,2-Dichloropropane	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:58	erussell	Q44354
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.17	1	601/602	09/08/09 16:58	erussell	Q44354
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:58	erussell	Q44354
Benzene	BRL	µg/L	0.50	0.19	1	601/602	09/08/09 16:58	erussell	Q44354
Bromodichloromethane	BRL	µg/L	1.0	0.11	1	601/602	09/08/09 16:58	erussell	Q44354
Bromoform	BRL	µg/L	1.0	0.094	1	601/602	09/08/09 16:58	erussell	Q44354
Bromomethane	BRL	µg/L	5.0	0.087	1	601/602	09/08/09 16:58	erussell	Q44354
Carbon tetrachloride	BRL	µg/L	1.0	0.23	1	601/602	09/08/09 16:58	erussell	Q44354
Chlorobenzene	BRL	µg/L	1.0	0.37	1	601/602	09/08/09 16:58	erussell	Q44354
Chloroethane	BRL	µg/L	5.0	0.25	1	601/602	09/08/09 16:58	erussell	Q44354
Chloroform	BRL	µg/L	1.0	0.18	1	601/602	09/08/09 16:58	erussell	Q44354
Chloromethane	BRL	µg/L	5.0	0.24	1	601/602	09/08/09 16:58	erussell	Q44354
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.51	1	601/602	09/08/09 16:58	erussell	Q44354
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.16	1	601/602	09/08/09 16:58	erussell	Q44354
Dibromochloromethane	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:58	erussell	Q44354
Dichlorodifluoromethane	BRL	µg/L	5.0	0.21	1	601/602	09/08/09 16:58	erussell	Q44354
Ethylbenzene	BRL	µg/L	1.0	0.28	1	601/602	09/08/09 16:58	erussell	Q44354
Isopropyl ether (IPE)	BRL	µg/L	5.0	0.18	1	601/602	09/08/09 16:58	erussell	Q44354
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	601/602	09/08/09 16:58	erussell	Q44354

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: SW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256472
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:45
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	5.0	0.17	1	601/602	09/08/09 16:58	erussell	Q44354
Methylene Chloride	BRL	µg/L	1.0	0.12	1	601/602	09/08/09 16:58	erussell	Q44354
Naphthalene	BRL	µg/L	1.0	0.63	1	601/602	09/08/09 16:58	erussell	Q44354
o-Xylene	BRL	µg/L	1.0	0.31	1	601/602	09/08/09 16:58	erussell	Q44354
Tetrachloroethene	BRL	µg/L	1.0	0.26	1	601/602	09/08/09 16:58	erussell	Q44354
Toluene	BRL	µg/L	1.0	0.23	1	601/602	09/08/09 16:58	erussell	Q44354
trans-1,2-Dichloroethene	BRL	µg/L	1.0	0.17	1	601/602	09/08/09 16:58	erussell	Q44354
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.19	1	601/602	09/08/09 16:58	erussell	Q44354
Trichloroethene	BRL	µg/L	1.0	0.21	1	601/602	09/08/09 16:58	erussell	Q44354
Trichlorofluoromethane	BRL	µg/L	5.0	0.24	1	601/602	09/08/09 16:58	erussell	Q44354
Vinyl chloride	BRL	µg/L	1.0	0.33	1	601/602	09/08/09 16:58	erussell	Q44354

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	99	56 - 148
1,4-Difluorobenzene-PID	98	69 - 140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.8	1.7	1	625	09/09/09 13:18	rselph	Q44380
1,2-Dichlorobenzene	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
1,3-Dichlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 13:18	rselph	Q44380
1,4-Dichlorobenzene	BRL	µg/L	9.8	1.8	1	625	09/09/09 13:18	rselph	Q44380
2,4,5-Trichlorophenol	BRL	µg/L	9.8	2.6	1	625	09/09/09 13:18	rselph	Q44380
2,4,6-Trichlorophenol	BRL	µg/L	9.8	3.1	1	625	09/09/09 13:18	rselph	Q44380
2,4-Dichlorophenol	BRL	µg/L	9.8	1.5	1	625	09/09/09 13:18	rselph	Q44380
2,4-Dimethylphenol	BRL	µg/L	9.8	2.4	1	625	09/09/09 13:18	rselph	Q44380
2,4-Dinitrophenol	BRL	µg/L	49	1.1	1	625	09/09/09 13:18	rselph	Q44380
2,4-Dinitrotoluene	BRL	µg/L	9.8	3.9	1	625	09/09/09 13:18	rselph	Q44380
2,6-Dinitrotoluene	BRL	µg/L	9.8	2.8	1	625	09/09/09 13:18	rselph	Q44380

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 NC Drinking Water Cert. No. 37735

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: SW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256472
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:45
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloronaphthalene	BRL	µg/L	9.8	2.9	1	625	09/09/09 13:18	rselph	Q44380
2-Chlorophenol	BRL	µg/L	9.8	1.7	1	625	09/09/09 13:18	rselph	Q44380
2-Methylphenol	BRL	µg/L	9.8	1.8	1	625	09/09/09 13:18	rselph	Q44380
2-Nitrophenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 13:18	rselph	Q44380
3&4-Methylphenol	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
3,3'-Dichlorobenzidine	BRL	µg/L	49	2.5	1	625	09/09/09 13:18	rselph	Q44380
4,6-Dinitro-2-methylphenol	BRL	µg/L	49	1.8	1	625	09/09/09 13:18	rselph	Q44380
4-Bromophenylphenylether	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
4-Chloro-3-methylphenol	BRL	µg/L	9.8	2.2	1	625	09/09/09 13:18	rselph	Q44380
4-Chlorophenylphenylether	BRL	µg/L	9.8	2.8	1	625	09/09/09 13:18	rselph	Q44380
4-Nitrophenol	BRL	µg/L	49	0.74	1	625	09/09/09 13:18	rselph	Q44380
Acenaphthene	BRL	µg/L	9.8	4.1	1	625	09/09/09 13:18	rselph	Q44380
Acenaphthylene	BRL	µg/L	9.8	2.7	1	625	09/09/09 13:18	rselph	Q44380
Anthracene	BRL	µg/L	9.8	1.7	1	625	09/09/09 13:18	rselph	Q44380
Benzo(a)anthracene	BRL	µg/L	9.8	2.1	1	625	09/09/09 13:18	rselph	Q44380
Benzo(a)pyrene	BRL	µg/L	9.8	1.6	1	625	09/09/09 13:18	rselph	Q44380
Benzo(b)fluoranthene	BRL	µg/L	9.8	1.2	1	625	09/09/09 13:18	rselph	Q44380
Benzo(g,h,i)perylene	BRL	µg/L	9.8	2.1	1	625	09/09/09 13:18	rselph	Q44380
Benzo(k)fluoranthene	BRL	µg/L	9.8	2.6	1	625	09/09/09 13:18	rselph	Q44380
Bis(2-chloroethoxy)methane	BRL	µg/L	9.8	2.3	1	625	09/09/09 13:18	rselph	Q44380
Bis(2-chloroethyl)ether	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.8	2.3	1	625	09/09/09 13:18	rselph	Q44380
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.8	2.7	1	625	09/09/09 13:18	rselph	Q44380
Butylbenzylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
Chrysene	BRL	µg/L	9.8	3.0	1	625	09/09/09 13:18	rselph	Q44380
Di-n-butylphthalate	BRL	µg/L	9.8	1.5	1	625	09/09/09 13:18	rselph	Q44380
Di-n-octylphthalate	BRL	µg/L	9.8	2.5	1	625	09/09/09 13:18	rselph	Q44380

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

Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: SW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256472
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:45
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibenzo(a,h)anthracene	BRL	µg/L	9.8	2.2	1	625	09/09/09 13:18	rselph	Q44380
Dibenzofuran	BRL	µg/L	9.8	3.5	1	625	09/09/09 13:18	rselph	Q44380
Diethylphthalate	BRL	µg/L	9.8	2.1	1	625	09/09/09 13:18	rselph	Q44380
Dimethylphthalate	BRL	µg/L	9.8	1.9	1	625	09/09/09 13:18	rselph	Q44380
Fluoranthene	BRL	µg/L	9.8	1.5	1	625	09/09/09 13:18	rselph	Q44380
Fluorene	BRL	µg/L	9.8	4.3	1	625	09/09/09 13:18	rselph	Q44380
Hexachlorobenzene	BRL	µg/L	9.8	2.0	1	625	09/09/09 13:18	rselph	Q44380
Hexachlorobutadiene	BRL	µg/L	9.8	1.7	1	625	09/09/09 13:18	rselph	Q44380
Hexachlorocyclopentadiene	BRL	µg/L	9.8	2.0	1	625	09/09/09 13:18	rselph	Q44380
Hexachloroethane	BRL	µg/L	9.8	2.2	1	625	09/09/09 13:18	rselph	Q44380
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.8	3.6	1	625	09/09/09 13:18	rselph	Q44380
Isophorone	BRL	µg/L	9.8	2.6	1	625	09/09/09 13:18	rselph	Q44380
N-Nitrosodi-n-propylamine	BRL	µg/L	9.8	2.2	1	625	09/09/09 13:18	rselph	Q44380
Naphthalene	BRL	µg/L	9.8	1.6	1	625	09/09/09 13:18	rselph	Q44380
Nitrobenzene	BRL	µg/L	9.8	2.1	1	625	09/09/09 13:18	rselph	Q44380
Pentachlorophenol	BRL	µg/L	9.8	2.0	1	625	09/09/09 13:18	rselph	Q44380
Phenanthrene	BRL	µg/L	9.8	1.2	1	625	09/09/09 13:18	rselph	Q44380
Phenol	BRL	µg/L	9.8	0.57	1	625	09/09/09 13:18	rselph	Q44380
Pyrene	BRL	µg/L	9.8	1.8	1	625	09/09/09 13:18	rselph	Q44380

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Laboratory Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: SW-1
 Project No.: WBS #34599.1.1 Prism Sample ID: 256472
 Sample Matrix: Water COC Group: G0809749
 Time Collected: 08/28/09 10:45
 Time Submitted: 08/28/09 14:02

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				1020 mL /	1 mL	625	09/04/09 8:00	smanivanh	P25512

Surrogate	% Recovery	Control Limits
Terphenyl-d14	120	10 - 154
Phenol-d5	28	10 - 48
Nitrobenzene-d5	92	22 - 103
2-Fluorophenol	43	10 - 59
2-Fluorobiphenyl	102	29 - 112
2,4,6-Tribromophenol	111	27 - 125

TIC's By 625

Est.Conc Units

No TICs were detected.

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

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Purgeable Halocarbons and Aromatics by GC-PID/ELCD, method 601/602

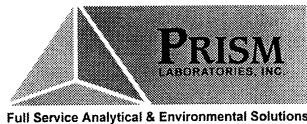
Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q44354
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q44354
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q44354
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q44354
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q44354
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q44354
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q44354
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44354
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q44354
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q44354
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q44354
Benzene	ND	0.5	<0.25	µg/L	Q44354
Bromodichloromethane	ND	1	<0.5	µg/L	Q44354
Bromoform	ND	1	<0.5	µg/L	Q44354
Bromomethane	ND	5	<2.5	µg/L	Q44354
Carbon tetrachloride	ND	1	<0.5	µg/L	Q44354
Chlorobenzene	ND	1	<0.5	µg/L	Q44354
Chloroethane	ND	5	<2.5	µg/L	Q44354
Chloroform	ND	1	<0.5	µg/L	Q44354
Chloromethane	ND	5	<2.5	µg/L	Q44354
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q44354
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q44354
Dibromochloromethane	ND	1	<0.5	µg/L	Q44354
Dichlorodifluoromethane	ND	5	<2.5	µg/L	Q44354
Ethylbenzene	ND	1	<0.5	µg/L	Q44354
Isopropyl ether (IPE)	ND	5	<2.5	µg/L	Q44354
m,p-Xylenes	ND	2	<1	µg/L	Q44354
Methyl t-butyl ether (MTBE)	ND	5	<2.5	µg/L	Q44354
Methylene Chloride	ND	1	<0.5	µg/L	Q44354
Naphthalene	ND	1	<0.5	µg/L	Q44354
o-Xylene	ND	1	<0.5	µg/L	Q44354
Tetrachloroethene	ND	1	<0.5	µg/L	Q44354
Toluene	ND	1	<0.5	µg/L	Q44354
trans-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q44354

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

Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q44354
Trichloroethene	ND	1	<0.5	µg/L	Q44354
Trichlorofluoromethane	ND	5	<2.5	µg/L	Q44354
Vinyl chloride	ND	1	<0.5	µg/L	Q44354

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1,1-Trichloroethane	20.065	20	µg/L	100	41-138	Q44354
1,1,2,2-Tetrachloroethane	22.838	20	µg/L	114	10-184	Q44354
1,1,2-Trichloroethane	21.427	20	µg/L	107	39-136	Q44354
1,1-Dichloroethane	21.151	20	µg/L	106	47-132	Q44354
1,1-Dichloroethene	18.946	20	µg/L	95	28-167	Q44354
1,2-Dibromoethane (EDB)	16.483	20	µg/L	82	78-131	Q44354
1,2-Dichlorobenzene	18.514	20	µg/L	93	37-154	Q44354
1,2-Dichloroethane	23.324	20	µg/L	117	51-147	Q44354
1,2-Dichloropropane	20.445	20	µg/L	102	44-156	Q44354
1,3-Dichlorobenzene	18.485	20	µg/L	92	50-141	Q44354
1,4-Dichlorobenzene	18.451	20	µg/L	92	42-143	Q44354
Benzene	21.2	20	µg/L	106	39-150	Q44354
Bromodichloromethane	19.278	20	µg/L	96	42-172	Q44354
Bromoform	15.421	20	µg/L	77	13-159	Q44354
Bromomethane	20.73	20	µg/L	104	10-144	Q44354
Carbon tetrachloride	20.107	20	µg/L	101	43-143	Q44354
Chlorobenzene	17.251	20	µg/L	86	38-150	Q44354
Chloroethane	18.477	20	µg/L	92	46-137	Q44354
Chloroform	23.57	20	µg/L	118	49-133	Q44354
Chloromethane	19.706	20	µg/L	99	10-193	Q44354
cis-1,2-Dichloroethene	18.65	20	µg/L	93	62-145	Q44354
cis-1,3-Dichloropropene	22.911	20	µg/L	115	22-178	Q44354
Dibromochloromethane	20.282	20	µg/L	101	24-191	Q44354
Dichlorodifluoromethane	20.186	20	µg/L	101	48-148	Q44354
Ethylbenzene	20.296	20	µg/L	101	32-160	Q44354
Isopropyl ether (IPE)	16.665	20	µg/L	83	61-134	Q44354
m,p-Xylenes	39.203	40	µg/L	98	69-130	Q44354
Methyl t-butyl ether (MTBE)	18.39	20	µg/L	92	74-130	Q44354
Methylene Chloride	19.456	20	µg/L	97	25-162	Q44354
Naphthalene	23.31	20	µg/L	117	60-136	Q44354

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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
o-Xylene	23.355	20	µg/L	117	66-129	Q44354
Tetrachloroethene	18.917	20	µg/L	95	26-162	Q44354
Toluene	19.909	20	µg/L	100	46-148	Q44354
trans-1,2-Dichloroethene	17.382	20	µg/L	87	38-155	Q44354
trans-1,3-Dichloropropene	21.287	20	µg/L	106	22-178	Q44354
Trichloroethene	18.303	20	µg/L	92	35-146	Q44354
Trichlorofluoromethane	24.118	20	µg/L	121	21-156	Q44354
Vinyl chloride	20.386	20	µg/L	102	28-163	Q44354

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 256705 1,1,1-Trichloroethane	77.256	80	µg/L	97	41-138	Q44354
1,1,2,2-Tetrachloroethane	91.42	80	µg/L	114	10-184	Q44354
1,1,2-Trichloroethane	83.36	80	µg/L	104	39-136	Q44354
1,1-Dichloroethane	70.668	80	µg/L	88	47-132	Q44354
1,1-Dichloroethene	71.548	80	µg/L	89	28-167	Q44354
1,2-Dibromoethane (EDB)	63.792	80	µg/L	80	78-131	Q44354
1,2-Dichlorobenzene	71.496	80	µg/L	89	37-154	Q44354
1,2-Dichloroethane	89.784	80	µg/L	112	51-147	Q44354
1,2-Dichloropropane	77.26	80	µg/L	97	44-156	Q44354
1,3-Dichlorobenzene	69.532	80	µg/L	87	50-141	Q44354
1,4-Dichlorobenzene	70.632	80	µg/L	88	42-143	Q44354
Benzene	72.592	80	µg/L	91	39-150	Q44354
Bromodichloromethane	73.8	80	µg/L	92	42-172	Q44354
Bromoform	64.348	80	µg/L	80	13-159	Q44354
Bromomethane	85.516	80	µg/L	107	10-144	Q44354
Carbon tetrachloride	77.684	80	µg/L	97	43-143	Q44354
Chlorobenzene	65.536	80	µg/L	82	38-150	Q44354
Chloroethane	75.504	80	µg/L	94	46-137	Q44354
Chloroform	87.896	80	µg/L	110	49-133	Q44354
Chloromethane	95.452	80	µg/L	119	10-193	Q44354
cis-1,2-Dichloroethene	70.16	80	µg/L	88	57-137	Q44354
cis-1,3-Dichloropropene	84.384	80	µg/L	105	22-178	Q44354
Dibromochloromethane	78.148	80	µg/L	98	24-191	Q44354
Dichlorodifluoromethane	112.184	80	µg/L	140	47-143	Q44354
Ethylbenzene	77.16	80	µg/L	96	32-160	Q44354
Isopropyl ether (IPE)	63.328	80	µg/L	79	60-132	Q44354

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Level II QC Report

09/14/09

N. C. Department of Transportation
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 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:							
256705	m,p-Xylenes	150.068	160	µg/L	94	59-126	Q44354
	Methyl t-butyl ether (MTBE)	75.128	80	µg/L	94	73-130	Q44354
	Methylene Chloride	75.608	80	µg/L	95	25-162	Q44354
	Naphthalene	91.124	80	µg/L	114	58-132	Q44354
	o-Xylene	79.728	80	µg/L	100	62-125	Q44354
	Tetrachloroethene	70.54	80	µg/L	88	26-162	Q44354
	Toluene	73.484	80	µg/L	92	46-148	Q44354
	trans-1,2-Dichloroethene	66.38	80	µg/L	83	38-155	Q44354
	trans-1,3-Dichloropropene	80.784	80	µg/L	101	22-178	Q44354
	Trichloroethene	65.416	80	µg/L	82	35-146	Q44354
	Trichlorofluoromethane	70.968	80	µg/L	89	21-156	Q44354
	Vinyl chloride	80.192	80	µg/L	100	28-163	Q44354

Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
256705	1,1,1-Trichloroethane	78.4	80	µg/L	98	41-138	1	0 - 16	Q44354
	1,1,2,2-Tetrachloroethane	94.852	80	µg/L	119	10-184	4	0 - 14	Q44354
	1,1,2-Trichloroethane	87.308	80	µg/L	109	39-136	5	0 - 13	Q44354
	1,1-Dichloroethane	80.496	80	µg/L	101	47-132	13	0 - 14	Q44354
	1,1-Dichloroethene	71.128	80	µg/L	89	28-167	1	0 - 17	Q44354
	1,2-Dibromoethane (EDB)	67.156	80	µg/L	84	78-131	5	0 - 13	Q44354
	1,2-Dichlorobenzene	71.456	80	µg/L	89	37-154	0	0 - 15	Q44354
	1,2-Dichloroethane	93.36	80	µg/L	117	51-147	4	0 - 15	Q44354
	1,2-Dichloropropane	80.796	80	µg/L	101	44-156	4	0 - 12	Q44354
	1,3-Dichlorobenzene	69.152	80	µg/L	86	50-141	1	0 - 13	Q44354
	1,4-Dichlorobenzene	71.072	80	µg/L	89	42-143	1	0 - 14	Q44354
	Benzene	73.904	80	µg/L	92	39-150	2	0 - 12	Q44354
	Bromodichloromethane	76.516	80	µg/L	96	42-172	4	0 - 11	Q44354
	Bromoform	63.976	80	µg/L	80	13-159	1	0 - 10	Q44354
	Bromomethane	86.812	80	µg/L	109	10-144	2	0 - 21	Q44354
	Carbon tetrachloride	79.612	80	µg/L	100	43-143	2	0 - 14	Q44354
	Chlorobenzene	66.712	80	µg/L	83	38-150	2	0 - 12	Q44354
	Chloroethane	75.748	80	µg/L	95	46-137	0	0 - 18	Q44354
	Chloroform	91.488	80	µg/L	114	49-133	4	0 - 13	Q44354
	Chloromethane	95.164	80	µg/L	119	10-193	0	0 - 21	Q44354
	cis-1,2-Dichloroethene	72.068	80	µg/L	90	57-137	3	0 - 15	Q44354
	cis-1,3-Dichloropropene	87.16	80	µg/L	109	22-178	3	0 - 13	Q44354

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Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

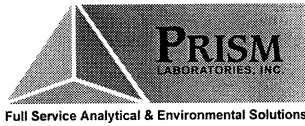
Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
256705 Dibromochloromethane	82.088	80	µg/L	103	24-191	5	0 - 10	Q44354
Dichlorodifluoromethane	111.644	80	µg/L	140	47-143	0	0 - 21	Q44354
Ethylbenzene	76.552	80	µg/L	96	32-160	1	0 - 10	Q44354
Isopropyl ether (IPE)	65.04	80	µg/L	81	60-132	3	0 - 15	Q44354
m,p-Xylenes	149.04	160	µg/L	93	59-126	1	0 - 11	Q44354
Methyl t-butyl ether (MTBE)	78.512	80	µg/L	98	73-130	4	0 - 16	Q44354
Methylene Chloride	79.528	80	µg/L	99	25-162	5	0 - 16	Q44354
Naphthalene	92.064	80	µg/L	115	58-132	1	0 - 17	Q44354
o-Xylene	75.42	80	µg/L	94	62-125	6	0 - 13	Q44354
Tetrachloroethene	71.528	80	µg/L	89	26-162	1	0 - 14	Q44354
Toluene	74.484	80	µg/L	93	46-148	1	0 - 11	Q44354
trans-1,2-Dichloroethene	67.024	80	µg/L	84	38-155	1	0 - 17	Q44354
trans-1,3-Dichloropropene	83.844	80	µg/L	105	22-178	4	0 - 10	Q44354
Trichloroethene	66.368	80	µg/L	83	35-146	1	0 - 14	Q44354
Trichlorofluoromethane	72.62	80	µg/L	91	21-156	2	0 - 19	Q44354
Vinyl chloride	73.56	80	µg/L	92	28-163	9	0 - 20	Q44354

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COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Semivolatile Organic Compounds by GC/MS, method 625

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q44380
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q44380
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q44380
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q44380
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q44380
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q44380
2,4-Dichlorophenol	ND	10	<5	µg/L	Q44380
2,4-Dimethylphenol	ND	10	<5	µg/L	Q44380
2,4-Dinitrophenol	ND	50	<25	µg/L	Q44380
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q44380
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q44380
2-Chloronaphthalene	ND	10	<5	µg/L	Q44380
2-Chlorophenol	ND	10	<5	µg/L	Q44380
2-Methylphenol	ND	10	<5	µg/L	Q44380
2-Nitrophenol	ND	10	<5	µg/L	Q44380
3&4-Methylphenol	ND	10	<5	µg/L	Q44380
3,3'-Dichlorobenzidine	ND	50	<25	µg/L	Q44380
4,6-Dinitro-2-methylphenol	ND	50	<25	µg/L	Q44380
4-Bromophenylphenylether	ND	10	<5	µg/L	Q44380
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q44380
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q44380
4-Nitrophenol	ND	50	<25	µg/L	Q44380
Acenaphthene	ND	10	<5	µg/L	Q44380
Acenaphthylene	ND	10	<5	µg/L	Q44380
Anthracene	ND	10	<5	µg/L	Q44380
Benzo(a)anthracene	ND	10	<5	µg/L	Q44380
Benzo(a)pyrene	ND	10	<5	µg/L	Q44380
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q44380
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q44380
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q44380
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q44380
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q44380
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q44380
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q44380

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 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Butylbenzylphthalate	ND	10	<5	µg/L	Q44380
Chrysene	ND	10	<5	µg/L	Q44380
Di-n-butylphthalate	ND	10	<5	µg/L	Q44380
Di-n-octylphthalate	ND	10	<5	µg/L	Q44380
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q44380
Dibenzofuran	ND	10	<5	µg/L	Q44380
Diethylphthalate	ND	10	<5	µg/L	Q44380
Dimethylphthalate	ND	10	<5	µg/L	Q44380
Fluoranthene	ND	10	<5	µg/L	Q44380
Fluorene	ND	10	<5	µg/L	Q44380
Hexachlorobenzene	ND	10	<5	µg/L	Q44380
Hexachlorobutadiene	ND	10	<5	µg/L	Q44380
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q44380
Hexachloroethane	ND	10	<5	µg/L	Q44380
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q44380
Isophorone	ND	10	<5	µg/L	Q44380
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q44380
Naphthalene	ND	10	<5	µg/L	Q44380
Nitrobenzene	ND	10	<5	µg/L	Q44380
Pentachlorophenol	ND	10	<5	µg/L	Q44380
Phenanthrene	ND	10	<5	µg/L	Q44380
Phenol	ND	10	<5	µg/L	Q44380
Pyrene	ND	10	<5	µg/L	Q44380

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	79.63	100	µg/L	80	44-142	Q44380
1,2-Dichlorobenzene	79.27	100	µg/L	79	32-129	Q44380
1,3-Dichlorobenzene	77.87	100	µg/L	78	20-124	Q44380
1,4-Dichlorobenzene	78.68	100	µg/L	79	20-124	Q44380
2,4,6-Trichlorophenol	99.95	100	µg/L	100	37-144	Q44380
2,4-Dichlorophenol	82.74	100	µg/L	83	39-135	Q44380
2,4-Dimethylphenol	81.39	100	µg/L	81	32-119	Q44380
2,4-Dinitrophenol	86.63	100	µg/L	87	10-191	Q44380
2,4-Dinitrotoluene	125.72	100	µg/L	126	39-139	Q44380
2,6-Dinitrotoluene	118.1	100	µg/L	118	50-158	Q44380
2-Chloronaphthalene	90.14	100	µg/L	90	60-118	Q44380

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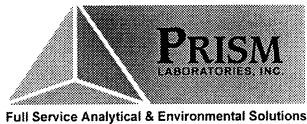
Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
2-Chlorophenol	69.93	100	µg/L	70	23-134	Q44380
2-Nitrophenol	84.14	100	µg/L	84	29-182	Q44380
3&4-Methylphenol	56.94	100	µg/L	57	10-98	Q44380
3,3'-Dichlorobenzidine	115.17	100	µg/L	115	10-262	Q44380
4,6-Dinitro-2-methylphenol	107.9	100	µg/L	108	10-181	Q44380
4-Bromophenylphenylether	102.95	100	µg/L	103	53-127	Q44380
4-Chloro-3-methylphenol	90.25	100	µg/L	90	22-147	Q44380
4-Chlorophenylphenylether	108.58	100	µg/L	109	25-158	Q44380
4-Nitrophenol	35.33	100	µg/L	35	10-132	Q44380
Acenaphthene	101.09	100	µg/L	101	47-145	Q44380
Acenaphthylene	99.3	100	µg/L	99	33-145	Q44380
Anthracene	107.23	100	µg/L	107	27-133	Q44380
Benzo(a)anthracene	116.48	100	µg/L	116	33-143	Q44380
Benzo(a)pyrene	126.5	100	µg/L	127	17-163	Q44380
Benzo(b)fluoranthene	126.91	100	µg/L	127	24-159	Q44380
Benzo(g,h,i)perylene	110.13	100	µg/L	110	10-219	Q44380
Benzo(k)fluoranthene	121.7	100	µg/L	122	11-162	Q44380
Bis(2-chloroethoxy)methane	81.63	100	µg/L	82	33-184	Q44380
Bis(2-chloroethyl)ether	77.7	100	µg/L	78	12-158	Q44380
Bis(2-chloroisopropyl)ether	85.89	100	µg/L	86	36-166	Q44380
Bis(2-ethylhexyl)phthalate	125.47	100	µg/L	125	10-158	Q44380
Butylbenzylphthalate	127.14	100	µg/L	127	10-152	Q44380
Chrysene	109.56	100	µg/L	110	17-168	Q44380
Di-n-butylphthalate	101.37	100	µg/L	101	10-118	Q44380
Di-n-octylphthalate	151.98	100	µg/L	152 #	10-146	Q44380
Dibenzo(a,h)anthracene	116.96	100	µg/L	117	10-227	Q44380
Diethylphthalate	112.99	100	µg/L	113	10-114	Q44380
Dimethylphthalate	105.66	100	µg/L	106	10-112	Q44380
Fluoranthene	101.65	100	µg/L	102	26-137	Q44380
Fluorene	108.21	100	µg/L	108	59-121	Q44380
Hexachlorobenzene	99.54	100	µg/L	100	10-152	Q44380
Hexachlorobutadiene	79.01	100	µg/L	79	24-116	Q44380
Hexachlorocyclopentadiene	73.06	100	µg/L	73	32-103	Q44380
Hexachloroethane	74.11	100	µg/L	74	40-113	Q44380
Indeno(1,2,3-cd)pyrene	109.98	100	µg/L	110	10-171	Q44380
Isophorone	105.09	100	µg/L	105	21-196	Q44380

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

Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
N-Nitrosodi-n-propylamine	76.23	100	µg/L	76	10-230	Q44380
Naphthalene	82.86	100	µg/L	83	21-133	Q44380
Nitrobenzene	86.88	100	µg/L	87	35-180	Q44380
Pentachlorophenol	102.33	100	µg/L	102	14-176	Q44380
Phenanthrene	101.06	100	µg/L	101	54-120	Q44380
Phenol	32.98	100	µg/L	33	10-112	Q44380
Pyrene	118.04	100	µg/L	118 #	52-115	Q44380

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 256469 1,2,4-Trichlorobenzene	153.882	196.07	µg/L	78	44-142	Q44380
1,2-Dichlorobenzene	145.019	196.07	µg/L	74	32-129	Q44380
1,3-Dichlorobenzene	140.843	196.07	µg/L	72	20-124	Q44380
1,4-Dichlorobenzene	143.392	196.07	µg/L	73	20-124	Q44380
2,4,6-Trichlorophenol	149.882	196.07	µg/L	76	37-144	Q44380
2,4-Dichlorophenol	159.627	196.07	µg/L	81	39-135	Q44380
2,4-Dimethylphenol	144.431	196.07	µg/L	74	32-119	Q44380
2,4-Dinitrophenol	44.4705	196.07	µg/L	23	10-191	Q44380
2,4-Dinitrotoluene	239.372	196.07	µg/L	122	39-139	Q44380
2,6-Dinitrotoluene	223.137	196.07	µg/L	114	50-158	Q44380
2-Chloronaphthalene	175.725	196.07	µg/L	90	60-118	Q44380
2-Chlorophenol	134.176	196.07	µg/L	68	23-134	Q44380
2-Nitrophenol	154.019	196.07	µg/L	79	29-182	Q44380
3&4-Methylphenol	129.509	196.07	µg/L	66	15-107	Q44380
3,3'-Dichlorobenzidine	206.941	196.07	µg/L	106	10-262	Q44380
4,6-Dinitro-2-methylphenol	95.1960	196.07	µg/L	49	10-181	Q44380
4-Bromophenylphenylether	200.921	196.07	µg/L	102	53-127	Q44380
4-Chloro-3-methylphenol	185.372	196.07	µg/L	95	22-147	Q44380
4-Chlorophenylphenylether	204.098	196.07	µg/L	104	25-158	Q44380
4-Nitrophenol	46.3725	196.07	µg/L	24	10-132	Q44380
Acenaphthene	194.274	196.07	µg/L	99	47-145	Q44380
Acenaphthylene	190.431	196.07	µg/L	97	33-145	Q44380
Anthracene	208.372	196.07	µg/L	106	27-133	Q44380
Benzo(a)anthracene	226.529	196.07	µg/L	116	33-143	Q44380
Benzo(a)pyrene	239.196	196.07	µg/L	122	17-163	Q44380
Benzo(b)fluoranthene	237.490	196.07	µg/L	121	24-159	Q44380
Benzo(g,h,i)perylene	209.137	196.07	µg/L	107	10-219	Q44380

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

Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:							
256469	Benzo(k)fluoranthene	228.529	196.07	µg/L	117	11-162	Q44380
	Bis(2-chloroethoxy)methane	158.960	196.07	µg/L	81	33-184	Q44380
	Bis(2-chloroethyl)ether	142.529	196.07	µg/L	73	12-158	Q44380
	Bis(2-chloroisopropyl)ether	160.019	196.07	µg/L	82	36-166	Q44380
	Bis(2-ethylhexyl)phthalate	239.196	196.07	µg/L	122	10-158	Q44380
	Butylbenzylphthalate	245.313	196.07	µg/L	125	10-152	Q44380
	Chrysene	213.627	196.07	µg/L	109	17-168	Q44380
	Di-n-butylphthalate	196.862	196.07	µg/L	100	10-118	Q44380
	Di-n-octylphthalate	273.098	196.07	µg/L	139	10-146	Q44380
	Dibenzo(a,h)anthracene	217.372	196.07	µg/L	111	10-227	Q44380
	Diethylphthalate	215.313	196.07	µg/L	110	10-114	Q44380
	Dimethylphthalate	213.470	196.07	µg/L	109	10-112	Q44380
	Fluoranthene	195.627	196.07	µg/L	100	26-137	Q44380
	Fluorene	202.392	196.07	µg/L	103	59-121	Q44380
	Hexachlorobenzene	193.078	196.07	µg/L	98	10-152	Q44380
	Hexachlorobutadiene	148.392	196.07	µg/L	76	24-116	Q44380
	Hexachlorocyclopentadiene	141.705	196.07	µg/L	72	48-94	Q44380
	Hexachloroethane	134.078	196.07	µg/L	68	40-113	Q44380
	Indeno(1,2,3-cd)pyrene	213.980	196.07	µg/L	109	10-171	Q44380
	Isophorone	206.745	196.07	µg/L	105	21-196	Q44380
	N-Nitrosodi-n-propylamine	150.803	196.07	µg/L	77	10-230	Q44380
	Naphthalene	159.803	196.07	µg/L	82	21-133	Q44380
	Nitrobenzene	164.333	196.07	µg/L	84	35-180	Q44380
	Pentachlorophenol	76.8039	196.07	µg/L	39	14-176	Q44380
	Phenanthrene	194.980	196.07	µg/L	99	54-120	Q44380
	Phenol	81.4313	196.07	µg/L	42	10-112	Q44380
	Pyrene	225.352	196.07	µg/L	115	52-115	Q44380

Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
256469	1,2,4-Trichlorobenzene	182.392	196.07	µg/L	93	44-142	17	0 - 36	Q44380
	1,2-Dichlorobenzene	178.196	196.07	µg/L	91	32-129	21	0 - 38	Q44380
	1,3-Dichlorobenzene	173.196	196.07	µg/L	88	20-124	21	0 - 41	Q44380
	1,4-Dichlorobenzene	175.862	196.07	µg/L	90	20-124	20	0 - 36	Q44380
	2,4,6-Trichlorophenol	162.313	196.07	µg/L	83	37-144	8	0 - 30	Q44380
	2,4-Dichlorophenol	180.882	196.07	µg/L	92	39-135	12	0 - 31	Q44380
	2,4-Dimethylphenol	160.686	196.07	µg/L	82	32-119	11	0 - 26	Q44380

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

Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
256469 2,4-Dinitrophenol	48.3921	196.07	µg/L	25	10-191	8	0 - 30	Q44380
2,4-Dinitrotoluene	241.823	196.07	µg/L	123	39-139	1	0 - 29	Q44380
2,6-Dinitrotoluene	230.960	196.07	µg/L	118	50-158	3	0 - 15	Q44380
2-Chloronaphthalene	197.372	196.07	µg/L	101	60-118	12	0 - 21	Q44380
2-Chlorophenol	160.803	196.07	µg/L	82	23-134	18	0 - 35	Q44380
2-Nitrophenol	184	196.07	µg/L	94	29-182	18	0 - 34	Q44380
3&4-Methylphenol	141.627	196.07	µg/L	72	15-107	9	0 - 27	Q44380
3,3'-Dichlorobenzidine	212.019	196.07	µg/L	108	10-262	2	0 - 50	Q44380
4,6-Dinitro-2-methylphenol	96.3725	196.07	µg/L	49	10-181	1	0 - 19	Q44380
4-Bromophenylphenylether	210.901	196.07	µg/L	108	53-127	5	0 - 18	Q44380
4-Chloro-3-methylphenol	195.235	196.07	µg/L	100	22-147	5	0 - 33	Q44380
4-Chlorophenylphenylether	215.235	196.07	µg/L	110	25-158	5	0 - 19	Q44380
4-Nitrophenol	39.7450	196.07	µg/L	20	10-132	15	0 - 50	Q44380
Acenaphthene	211.019	196.07	µg/L	108	47-145	8	0 - 20	Q44380
Acenaphthylene	207.549	196.07	µg/L	106	33-145	9	0 - 24	Q44380
Anthracene	212.313	196.07	µg/L	108	27-133	2	0 - 30	Q44380
Benzo(a)anthracene	222.901	196.07	µg/L	114	33-143	2	0 - 26	Q44380
Benzo(a)pyrene	232.568	196.07	µg/L	119	17-163	3	0 - 25	Q44380
Benzo(b)fluoranthene	227.666	196.07	µg/L	116	24-159	4	0 - 29	Q44380
Benzo(g,h,i)perylene	212.058	196.07	µg/L	108	10-219	1	0 - 27	Q44380
Benzo(k)fluoranthene	221.666	196.07	µg/L	113	11-162	3	0 - 11	Q44380
Bis(2-chloroethoxy)methane	187	196.07	µg/L	95	33-184	16	0 - 31	Q44380
Bis(2-chloroethyl)ether	174.941	196.07	µg/L	89	12-158	20	0 - 36	Q44380
Bis(2-chloroisopropyl)ether	194.098	196.07	µg/L	99	36-166	19	0 - 40	Q44380
Bis(2-ethylhexyl)phthalate	225.529	196.07	µg/L	115	10-158	6	0 - 17	Q44380
Butylbenzylphthalate	235.215	196.07	µg/L	120	10-152	4	0 - 15	Q44380
Chrysene	213.156	196.07	µg/L	109	17-168	0	0 - 25	Q44380
Di-n-butylphthalate	196	196.07	µg/L	100	10-118	0	0 - 27	Q44380
Di-n-octylphthalate	251.921	196.07	µg/L	128	10-146	8	0 - 17	Q44380
Dibenzo(a,h)anthracene	222.313	196.07	µg/L	113	10-227	2	0 - 28	Q44380
Diethylphthalate	218.862	196.07	µg/L	112	10-114	2	0 - 16	Q44380
Dimethylphthalate	222.980	196.07	µg/L	114 #	10-112	4	0 - 15	Q44380
Fluoranthene	192	196.07	µg/L	98	26-137	2	0 - 24	Q44380
Fluorene	211.470	196.07	µg/L	108	59-121	4	0 - 15	Q44380
Hexachlorobenzene	195.588	196.07	µg/L	100	10-152	1	0 - 18	Q44380
Hexachlorobutadiene	180.372	196.07	µg/L	92	24-116	19	0 - 34	Q44380

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NC Certification No. 402
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Level II QC Report

09/14/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809749
 Date/Time Submitted: 08/28/09 14:02

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
256469 Hexachlorocyclopentadiene	163.921	196.07	µg/L	84	48-94	15	0 - 30	Q44380
Hexachloroethane	168.823	196.07	µg/L	86	40-113	23	0 - 38	Q44380
Indeno(1,2,3-cd)pyrene	215.627	196.07	µg/L	110	10-171	1	0 - 29	Q44380
Isophorone	233.686	196.07	µg/L	119	21-196	12	0 - 32	Q44380
N-Nitrosodi-n-propylamine	175.176	196.07	µg/L	89	10-230	15	0 - 36	Q44380
Naphthalene	186.647	196.07	µg/L	95	21-133	15	0 - 42	Q44380
Nitrobenzene	198.039	196.07	µg/L	101	35-180	19	0 - 25	Q44380
Pentachlorophenol	70.7647	196.07	µg/L	36	14-176	8	0 - 21	Q44380
Phenanthrene	198.862	196.07	µg/L	101	54-120	2	0 - 29	Q44380
Phenol	87.8431	196.07	µg/L	45	10-112	8	0 - 39	Q44380
Pyrene	216.901	196.07	µg/L	111	52-115	4	0 - 15	Q44380

#-See Case Narrative



Case Narrative

Date: 09/10/09
Company: N. C. Department of Transportation
Contact: Helen Corley
Address: c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Client Project ID: NCDOT: Haywood County
Prism COC Group No: G0809752
Collection Date(s): 08/26/09
Lab Submittal Date(s): 08/28/09
Client Project Name Or No: WBS #34599.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 7 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

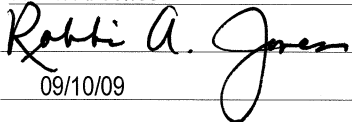
Wet Lab and Micro Analysis

N/A

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

Data Reviewed by: Robbi A. Jones

Project Manager: Robbi A. Jones

Signature: 

Signature: 

Review Date: 09/10/09

Approval Date: 09/10/09

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

09/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S1-1 (13-15)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256492
 Sample Matrix: Soil COC Group: G0809752
 Time Collected: 08/26/09 9:30
 Time Submitted: 08/28/09 11:05

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

Percent Solids	70.5	%			1	SM2540 G	09/01/09 16:30	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.9	1.6	1	8015B	09/03/09 22:18	pbarr	Q44301
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Sample Preparation: 24.92 g / 1 mL 3545 09/02/09 16:00 pbarr P25490

Surrogate	% Recovery	Control Limits
o-Terphenyl	83	49 - 124

Sample Weight Determination

Weight 1	6.13	g			1	GRO	09/01/09 0:00	lbrown	
Weight 2	5.95	g			1	GRO	09/01/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	0.87	50	8015B	09/08/09 5:46	grappaccioli	Q44337
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Surrogate	% Recovery	Control Limits
aaa-TFT	117	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

09/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S1-2 (3-5)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256493
 Sample Matrix: Soil COC Group: G0809752
 Time Collected: 08/26/09 9:40
 Time Submitted: 08/28/09 11:05

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

Percent Solids	74.7	%			1	SM2540 G	09/01/09 16:30	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.4	1.5	1	8015B	09/04/09 0:04	pbarr	Q44301
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Sample Preparation: 24.88 g / 1 mL 3545 09/02/09 16:00 pbarr P25490

Surrogate	% Recovery	Control Limits
o-Terphenyl	59	49 - 124

Sample Weight Determination

Weight 1	6.30	g			1	GRO	09/01/09 0:00	lbrown	
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Weight 2	7.07	g			1	GRO	09/01/09 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.82	50	8015B	09/08/09 12:45	grappaccioli	Q44337
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Surrogate	% Recovery	Control Limits
aaa-TFT	112	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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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S2-1 (13-15)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256494
 Sample Matrix: Soil COC Group: G0809752
 Time Collected: 08/26/09 10:15
 Time Submitted: 08/28/09 11:05

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

Percent Solids	74.0	%			1	SM2540 G	09/01/09 16:30	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.5	1.5	1	8015B	09/03/09 23:29	pbarr	Q44301
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Sample Preparation: 24.85 g / 1 mL 3545 09/02/09 16:00 pbarr P25490

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

Sample Weight Determination

Weight 1	6.48	g			1	GRO	09/01/09 0:00	lbrown
Weight 2	6.69	g			1	GRO	09/01/09 0:00	lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	0.82	50	8015B	09/08/09 13:18	grappaccioli	Q44337
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Surrogate	% Recovery	Control Limits
aaa-TFT	121	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

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Laboratory Report

09/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S2-2 (3-5)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256495
 Sample Matrix: Soil COC Group: G0809752
 Time Collected: 08/26/09 10:25
 Time Submitted: 08/28/09 11:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	76.8	%			1	SM2540 G	09/01/09 16:30	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.1	1.5	1	8015B	09/03/09 19:56	pbarr	Q44301
Sample Preparation:			25.03 g	/	1 mL	3545	09/02/09 16:00	pbarr	P25490
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		59	49 - 124	
Sample Weight Determination									
Weight 1	6.13	g			1	GRO	09/01/09 0:00	lbrown	
Weight 2	5.77	g			1	GRO	09/01/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	0.79	50	8015B	09/08/09 13:50	grappaccioli	Q44337
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		127	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

09/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S4-1 (5-6)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256496
 Sample Matrix: Soil COC Group: G0809752
 Time Collected: 08/26/09 12:10
 Time Submitted: 08/28/09 11:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	70.7	%			1	SM2540 G	09/01/09 16:30	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.9	1.6	1	8015B	09/03/09 20:31	pbarr	Q44301
Sample Preparation:			25.09 g	/	1 mL	3545	09/02/09 16:00	pbarr	P25490
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		56	49 - 124	
Sample Weight Determination									
Weight 1	6.80	g			1	GRO	09/01/09 0:00	lbrown	
Weight 2	6.74	g			1	GRO	09/01/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	0.86	50	8015B	09/08/09 14:23	grappaccioli	Q44337
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		128	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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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Level II QC Report

9/10/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0809752
 Date/Time Submitted: 8/28/09 11:05

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q44301		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	81.9	80		mg/kg	102	55-109	Q44301		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
256492 Diesel Range Organics (DRO)	64.6	80		mg/kg	81	50-117	Q44301		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
256492 Diesel Range Organics (DRO)	62.2	80		mg/kg	78	50-117	4	0 - 24	Q44301

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q44337		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	49.05	50		mg/kg	98	67-116	Q44337		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
256492 Gasoline Range Organics (GRO)	53.2	50		mg/kg	106	57-113	Q44337		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
256492 Gasoline Range Organics (GRO)	52.6	50		mg/kg	105	57-113	1	0 - 23	Q44337

#-See Case Narrative

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

Client Company Name: AMEC
 Report To/Contact Name: Helen Corley
 Reporting Address: 101 W. Friendly Ave
Greensboro NC 27401
 Phone: 336-691-5348 Fax (Yes) (No):
 Email (Yes/No) Email Address: hcorley@amec.com
 EDD Type: PDF Excel Other
 Site Location Name: Haywood County Site #1
 Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: 34549.1.1
 Project Name: Haywood county PSAs
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III III IV) provisions and/or QC Requirements

Invoice To: CACIS Peoples
 Address: 4001 1502 Mail Service Center
Raleigh NC 27699

Purchase Order No./Billing Reference 34549.1.1
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
 RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 1-7
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
S1-S1-1 (13-15)	8-26-01	930	soil	9/vda	4	29L		X	X	256492
S1-S1-2 (3-5)		940						X	X	256493
S1-S2-1 (13-15)		1015						X	X	256494
S1-S2-2 (3-5)		1025						X	X	256495
S1-S4-1 (5-6)		1210						X	X	256496

PRISM USE ONLY

Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

Additional Comments:

Sampler's Signature: Troy L. Holzschuh Sampled By (Print Name): Troy L. Holzschuh Affiliation: AMEC
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.
 Relinquished By (Signature): Troy Mjz ETS Date: 8/27/09 Military/Hours: 830
 Relinquished By (Signature): AMEC Date: 08-27-09 Military/Hours: 1223
 Relinquished By (Signature): AMEC Date: 8/27/09 Military/Hours: 1105
 Relinquished By (Signature): AMEC Date: 8/27/09 Military/Hours: 1105
 Method of Shipment: UPS Fed Ex UPS Hand-delivered Prism Field Service
 NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 NPDES: NC SC NC SC NC SC NC SC NC SC NC SC NC SC
 DRINKING WATER: NC SC NC SC NC SC NC SC NC SC
 SOLID WASTE: NC SC NC SC NC SC NC SC
 RCRA: NC SC NC SC NC SC
 CERCLA: NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER: NC SC NC SC
 *CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Case Narrative

Date: 09/18/09
Company: N. C. Department of Transportation
Contact: Helen Corley
Address: c/o AMEC Earth & Environmental, Inc.
101 W. Friendly Ave. Suite 603
Greensboro, NC 27401

Client Project ID: NCDOT: Haywood County
Prism COC Group No: G0909092
Collection Date(s): 9/1/09 thru 9/2/09
Lab Submittal Date(s): 09/03/09
Client Project Name Or No: WBS #34599.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 28 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

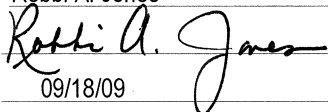
N/A

Wet Lab and Micro Analysis

N/A

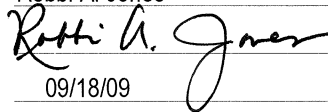
Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones

Signature: 

Review Date: 09/18/09

Project Manager: Robbi A. Jones

Signature: 

Approval Date: 09/18/09

Data Qualifiers Key Reference:

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

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



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Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S1-1 (3-5)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256894
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 12:45
 Time Submitted: 09/03/09 10:14

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

Percent Solids	76.1	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.2	1.5	1	8015B	09/10/09 23:16	ivogel	Q44455
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Sample Preparation: 24.93 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	59	49 - 124

Sample Weight Determination

Weight 1	7.18	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	7.17	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	0.80	50	8015B	09/11/09 13:26	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	103	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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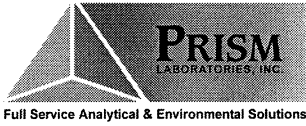
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Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S2-1 (3-6)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256895
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 13:00
 Time Submitted: 09/03/09 10:14

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

Percent Solids Determination

Percent Solids	78.4	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	09/10/09 23:52	jvogel	Q44455
-----------------------------	-----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 24.77 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	61	49 - 124

Sample Weight Determination

Weight 1	7.10	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.77	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	0.78	50	8015B	09/11/09 13:58	grappaccioli	Q44442
-------------------------------	-----	-------	-----	------	----	-------	----------------	--------------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	102	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S3-1 (3-4)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256896
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 13:15
 Time Submitted: 09/03/09 10:14

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

Percent Solids	80.2	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	09/11/09 0:27	jvogel	Q44455
-----------------------------	-----	-------	-----	-----	---	-------	---------------	--------	--------

Sample Preparation: 24.88 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	69	49 - 124

Sample Weight Determination

Weight 1	6.50	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.83	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.76	50	8015B	09/11/09 14:30	grappaccioli	Q44442
-------------------------------	-----	-------	-----	------	----	-------	----------------	--------------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	95	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

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 NC Drinking Water Cert. No. 37735

Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S4-1 (5-8)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256897
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 13:30
 Time Submitted: 09/03/09 10:14

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

Percent Solids Determination

Percent Solids	70.7	%			1	SM2540 G	09/04/09 14:15	mbarber	
----------------	------	---	--	--	---	----------	----------------	---------	--

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	10	1.6	1	8015B	09/11/09 1:02	jvogel	Q44455
-----------------------------	-----	-------	----	-----	---	-------	---------------	--------	--------

Sample Preparation: 24.78 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	59	49 - 124

Sample Weight Determination

Weight 1	5.68	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.83	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	0.86	50	8015B	09/11/09 15:03	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	104	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S5-1 (3-4.5)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256898
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:00
 Time Submitted: 09/03/09 10:14

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

Percent Solids	82.8	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.4	1.4	1	8015B	09/11/09 1:38	ivogel	Q44455
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Sample Preparation: 25.04 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	70	49 - 124

Sample Weight Determination

Weight 1	6.90	g			1	GRO	09/03/09 0:00	lbrown	
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Weight 2	6.83	g			1	GRO	09/03/09 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.74	50	8015B	09/11/09 15:36	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	110	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S6-1 (10-12)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256899
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:10
 Time Submitted: 09/03/09 10:14

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

Percent Solids	63.3	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	330	mg/kg	55	8.9	5	8015B	09/11/09 10:07	jvogel	Q44455
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Sample Preparation: 25 g / 1 mL 3545 09/09/09 16:00 aguptill P25530

Surrogate	% Recovery	Control Limits
o-Terphenyl	72	49 - 124

Sample Weight Determination

Weight 1	5.90	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.07	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	540	mg/kg	160	99	1000	8015B	09/12/09 0:54	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	DO #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Project ID: NCDOT: Haywood County Client Sample ID: S4-S6-2 (6-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256900
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:15
 Time Submitted: 09/03/09 10:14

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

Percent Solids	70.5	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.9	1.6	1	8015B	09/11/09 13:39	jvogel	Q44465
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Sample Preparation: 24.96 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	68	49 - 124

Sample Weight Determination

Weight 1	6.25	g			1	GRO	09/03/09 0:00	lbrown	
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Weight 2	6.35	g			1	GRO	09/03/09 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	0.87	50	8015B	09/11/09 16:08	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	101	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
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Project ID: NCDOT: Haywood County Client Sample ID: S4-S7-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256901
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:30
 Time Submitted: 09/03/09 10:14

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

Percent Solids	68.0	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	10	1.7	1	8015B	09/11/09 14:14	jvogel	Q44465
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Sample Preparation: 25.06 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination

Weight 1	6.37	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	5.96	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.4	0.90	50	8015B	09/11/09 16:40	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	118	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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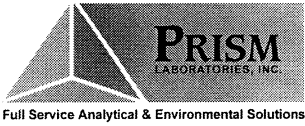
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Project ID: NCDOT: Haywood County Client Sample ID: S4-S7-2 (13-14)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256902
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:40
 Time Submitted: 09/03/09 10:14

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

Percent Solids	74.1	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	48	mg/kg	9.4	1.5	1	8015B	09/11/09 14:50	ivogel	Q44465
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Sample Preparation: 25.05 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	74	49 - 124

Sample Weight Determination

Weight 1	6.37	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	5.91	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	130	mg/kg	6.7	0.82	50	8015B	09/11/09 17:24	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	96	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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Project ID: NCDOT: Haywood County Client Sample ID: S4-S8-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256903
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 14:50
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.0	%			1	SM2540 G	09/04/09 14:15	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	09/11/09 15:25	jvogel	Q44465
Sample Preparation:			24.95 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
				Surrogate		% Recovery		Control Limits	
				o-Terphenyl		69		49 - 124	
Sample Weight Determination									
Weight 1	5.53	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	5.86	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	0.77	50	8015B	09/11/09 17:56	grappaccioli	Q44442
				Surrogate		% Recovery		Control Limits	
				aaa-TFT		95		55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Project ID: NCDOT: Haywood County Client Sample ID: S4-S9-1 (4-6)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256904
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 15:05
 Time Submitted: 09/03/09 10:14

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

Percent Solids	68.3	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	10	1.7	1	8015B	09/11/09 16:00	jvogel	Q44465
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Sample Preparation: 25.06 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	76	49 - 124

Sample Weight Determination

Weight 1	5.09	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	5.37	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.3	0.89	50	8015B	09/11/09 19:33	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	102	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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09/18/09

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Project ID: NCDOT: Haywood County Client Sample ID: S4-S10-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256905
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 15:20
 Time Submitted: 09/03/09 10:14

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

Percent Solids	76.9	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	09/11/09 16:36	jvogel	Q44465
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Sample Preparation: 24.8 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	66	49 - 124

Sample Weight Determination

Weight 1	5.62	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.23	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	0.79	50	8015B	09/11/09 20:06	grappaccioli	Q44442
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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

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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S11-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256906
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 15:40
 Time Submitted: 09/03/09 10:14

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

Percent Solids	68.8	%			1	SM2540 G	09/04/09 14:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	10	1.6	1	8015B	09/11/09 17:11	jvogel	Q44465
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Sample Preparation: 24.89 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	73	49 - 124

Sample Weight Determination

Weight 1	6.02	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.47	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.3	0.89	50	8015B	09/11/09 20:38	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	119	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S4-S12-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256907
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 16:00
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.5	%			1	SM2540 G	09/04/09 14:15	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.9	1.4	1	8015B	09/11/09 17:46	jvogel	Q44465
Sample Preparation:			25.17 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
		Surrogate		% Recovery		Control Limits			
		o-Terphenyl		73		49 - 124			
Sample Weight Determination									
Weight 1	6.10	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.26	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	0.77	50	8015B	09/11/09 21:10	grappaccioli	Q44442
		Surrogate		% Recovery		Control Limits			
		aaa-TFT		102		55 - 129			

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S3-S13-(4.5-6)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256908
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/01/09 16:45
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.9	%			1	SM2540 G	09/04/09 14:15	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	09/11/09 18:22	jvogel	Q44465
Sample Preparation:			25.15 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	67	49 - 124	
Sample Weight Determination									
Weight 1	6.91	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.81	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.75	50	8015B	09/11/09 21:42	grappaccioli	Q44442
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	121	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

09/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S5-1 (10-13)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256909
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 8:30
 Time Submitted: 09/03/09 10:14

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

Percent Solids	72.3	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.7	1.6	1	8015B	09/11/09 18:57	jvoegel	Q44465
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Sample Preparation: 25 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	75	49 - 124

Sample Weight Determination

Weight 1	6.43	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.74	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	0.84	50	8015B	09/11/09 22:14	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	116	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.

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Laboratory Report

09/18/09

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 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S5-2 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256910
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 8:40
 Time Submitted: 09/03/09 10:14

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

Percent Solids	82.9	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	09/11/09 20:07	ivogel	Q44465
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Sample Preparation: 25.13 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	69	49 - 124

Sample Weight Determination

Weight 1	6.47	g			1	GRO	09/03/09 0:00	lbrown	
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Weight 2	5.98	g			1	GRO	09/03/09 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.74	50	8015B	09/11/09 22:46	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	119	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S6-1 (6-8)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256911
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 9:55
 Time Submitted: 09/03/09 10:14

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

Percent Solids	80.7	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	09/11/09 20:42	jvogel	Q44465
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Sample Preparation: 25.04 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	70	49 - 124

Sample Weight Determination

Weight 1	6.47	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.83	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.76	50	8015B	09/11/09 23:18	grappaccioli	Q44442
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Surrogate recovery was above the control limits. GRO was not detected in the sample. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	130 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Project ID: NCDOT: Haywood County Client Sample ID: S1-S6-2 (10-12)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256912
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 10:00
 Time Submitted: 09/03/09 10:14

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

Percent Solids	75.1	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.4	1.5	1	8015B	09/11/09 21:18	jvogel	Q44465
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Sample Preparation: 25.27 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination

Weight 1	6.75	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	7.04	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.81	50	8015B	09/11/09 23:50	grappaccioli	Q44442
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Surrogate	% Recovery	Control Limits
aaa-TFT	125	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Project ID: NCDOT: Haywood County Client Sample ID: S1-S7-1 (8-10)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256913
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 11:00
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.3	%			1	SM2540 G	09/09/09 16:10	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	09/11/09 21:53	jvogel	Q44465
Sample Preparation:			25.08 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	71	49 - 124	
Sample Weight Determination									
Weight 1	6.67	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.34	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.75	50	8015B	09/12/09 0:22	grappaccioli	Q44442
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	103	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Project ID: NCDOT: Haywood County Client Sample ID: S1-S8-1 (5-7)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256914
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 11:15
 Time Submitted: 09/03/09 10:14

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

Percent Solids	80.5	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	09/11/09 22:28	jvogel	Q44465
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Sample Preparation: 24.8 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	76	49 - 124

Sample Weight Determination

Weight 1	12.19	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.77	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.76	50	8015B	09/12/09 4:39	grappaccioli	Q44463
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Surrogate	% Recovery	Control Limits
aaa-TFT	95	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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09/18/09

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 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S9-1 (7-9)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256915
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 13:15
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	74.3	%			1	SM2540 G	09/09/09 16:10	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.5	1.5	1	8015B	09/11/09 23:03	jvogel	Q44465
Sample Preparation:			25.22 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		61	49 - 124	
Sample Weight Determination									
Weight 1	6.37	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.16	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.82	50	8015B	09/12/09 5:11	grappaccioli	Q44463
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		113	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S10-1 (8-10)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256916
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 14:10
 Time Submitted: 09/03/09 10:14

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

Percent Solids	81.8	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	09/11/09 23:39	jvogel	Q44465
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Sample Preparation: 25.3 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

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

Sample Weight Determination

Weight 1	3.28	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	6.42	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	0.75	50	8015B	09/12/09 5:43	grappaccioli	Q44463
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Surrogate	% Recovery	Control Limits
aaa-TFT	102	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S11-1 (6-8)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256917
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 14:45
 Time Submitted: 09/03/09 10:14

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

Percent Solids	78.8	%			1	SM2540 G	09/09/09 16:10	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.9	1.4	1	8015B	09/12/09 0:14	ivogel	Q44465
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Sample Preparation: 25.01 g / 1 mL 3545 09/10/09 16:00 aguptill P25546

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination

Weight 1	4.91	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	4.49	g			1	GRO	09/03/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	0.77	50	8015B	09/12/09 6:15	grappaccioli	Q44463
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Surrogate	% Recovery	Control Limits
aaa-TFT	101	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County Client Sample ID: S1-S12-1 (5-8)
 Project No.: WBS #34599.1.1 Prism Sample ID: 256918
 Sample Matrix: Soil COC Group: G0909092
 Time Collected: 09/02/09 15:15
 Time Submitted: 09/03/09 10:14

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	68.4	%			1	SM2540 G	09/09/09 16:10	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	10	1.7	1	8015B	09/12/09 0:49	lvogel	Q44465
Sample Preparation:			24.84 g	/	1 mL	3545	09/10/09 16:00	aguptill	P25546
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	72	49 - 124	
Sample Weight Determination									
Weight 1	5.78	g			1	GRO	09/03/09 0:00	lbrown	
Weight 2	5.94	g			1	GRO	09/03/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.3	0.89	50	8015B	09/12/09 6:47	grappaccioli	Q44463
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	109	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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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

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



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

Level II QC Report

9/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0909092
 Date/Time Submitted: 9/3/09 10:14

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

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q44442
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount	Units				

Gasoline Range Organics (GRO)	45.5	50	mg/kg	91	67-116	Q44442
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Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				

256894 Gasoline Range Organics (GRO)	47.55	50	mg/kg	95	57-113	Q44442
--------------------------------------	-------	----	-------	----	--------	--------

Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units						

256894 Gasoline Range Organics (GRO)	48.5	50	mg/kg	97	57-113	2	0 - 23	Q44442
--------------------------------------	------	----	-------	----	--------	---	--------	--------

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

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q44455
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount	Units				

Diesel Range Organics (DRO)	75.5	80	mg/kg	94	55-109	Q44455
-----------------------------	------	----	-------	----	--------	--------

Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				

256462 Diesel Range Organics (DRO)	72.9	80	mg/kg	91	50-117	Q44455
------------------------------------	------	----	-------	----	--------	--------

Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units						

256462 Diesel Range Organics (DRO)	74.3	80	mg/kg	93	50-117	2	0 - 24	Q44455
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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Level II QC Report

9/18/09

N. C. Department of Transportation
 Attn: Helen Corley
 c/o AMEC Earth & Environmental, Inc.
 101 W. Friendly Ave. Suite 603
 Greensboro, NC 27401

Project ID: NCDOT: Haywood County
 Project No.: WBS #34599.1.1

COC Group Number: G0909092
 Date/Time Submitted: 9/3/09 10:14

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

Method Blank							QC Batch ID
	Result	RL	Control Limit	Units			
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q44463

Laboratory Control Sample							QC Batch ID
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
Gasoline Range Organics (GRO)	47.5	50	mg/kg	95	67-116		Q44463

Matrix Spike							QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
256915 Gasoline Range Organics (GRO)	47.7	50	mg/kg	95	57-113		Q44463

Matrix Spike Duplicate									QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %		
256915 Gasoline Range Organics (GRO)	47.65	50	mg/kg	95	57-113	0	0 - 23		Q44463

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

Method Blank							QC Batch ID
	Result	RL	Control Limit	Units			
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q44465

Laboratory Control Sample							QC Batch ID
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
Diesel Range Organics (DRO)	70.9	80	mg/kg	89	55-109		Q44465

Matrix Spike							QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		
256900 Diesel Range Organics (DRO)	66.9	80	mg/kg	84	50-117		Q44465

Matrix Spike Duplicate									QC Batch ID
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %		
256900 Diesel Range Organics (DRO)	62.7	80	mg/kg	78	50-117	6	0 - 24		Q44465

#-See Case Narrative



Full-Service Analytical & Environmental Solutions

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

Client Company Name: AMEC E+E

Report To/Contact Name: Heleen Colley

Reporting Address: 101 W. Friendly Ave Ste 603

Greensboro, NC 27401

Phone: 336-691-5388 Fax (Yes) (No):

Email (Yes) (No) Email Address:

EDD Type: PDF Excel Other

Site Location Name: heleen@colley.com

Site Location Physical Address: Site #4

CHAIN OF CUSTODY RECORD

PAGE OF QUOTE # TO ENSURE PROPER BILLING:

Project Name: Haywood County PSAs

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

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

Invoice To: Chr's Peoples

Address: 1572 Service Center Dr

Raleigh NC

Purchase Order No./Billing Reference

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

"Working Days" 6-9 Days Standard 10 days Pre-Approved

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

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

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
54-51-1(3-5)	9-1-09	1245	soil	G/vac	4	2 3/4 vac		PRO/35	X X	256894
54-52-1(3-6)		1300								256895
54-53-1(3-4)		1315								256896
54-54-1(5-8)		1330								256897
54-55-1(3-4.5)		1400								256898
54-56-1(10-12)		1410								256899
54-56-2(6-7)		1415								256900
54-57-1(5-7)		1430								256901
54-57-2(13-14)		1440								256902
54-58-1(5-7)		1450								256903

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Troy L Habesch Sampled By (Print Name): Troy L Habesch Affiliation: AMEC

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

Relinquished By: (Signature) Troy L Habesch Received By: (Signature)

Relinquished By: (Signature) Troy L Habesch Received By: (Signature)

Relinquished By: (Signature) Received By: (Signature)

Relinquished By: (Signature) Received By: (Signature)

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other

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

UST: NC SC NC SC NC SC NC SC

DRINKING WATER: NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC

CERCLA: NC SC NC SC NC SC

LANDFILL: NC SC NC SC NC SC

OTHER: NC SC NC SC

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

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

Additional Comments:

Date: 9/3/09 Military/Hours: 10:14

Date: 9/3/09 Military/Hours: 10:14

COO Group No.: 60905192

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD



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

Client Company Name: AMEL E&E
 Report To/Contact Name: Helen Colley
 Reporting Address: 101 W. Friendly Ave Ste 200
Greensboro, NC 27401

Phone: 336-641-5388 Fax (Yes) (No):
 Email (Yes) (No) Email Address: helen.colley@amel.com
 EDD Type: PDF Excel Other

Site Location Name: Haywood County
 Site Location Physical Address: Haywood County

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

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

Invoice To: CHRIS PROPPS
 Address: 554 S. Service Center Dr Raleigh, NC

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE			
S4-S9-1 (4-6)	9-1-09	1505	SOIL	6/100	4	29 2.0ea			256904
S4-S10-1 (5-7)		1520							256905
S4-S11-1 (5-7)		1540							256906
S4-S12-1 (5-7)		1600							256907
S3-S13-1 (4.5-6)		1645							256908

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

PRISM USE ONLY

Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

Additional Comments:

Date: 9/3/09 Military/Hours: 10.14
 Date: 9/3/09 Military/Hours: 10.14
 Date: 9/3/09 Military/Hours: 10.14
 Date: 9/3/09 Military/Hours: 10.14

Received By: (Signature)
 Received By: (Signature)
 Received For Prism Laboratories By: [Signature]
 CQC Group No. 60909892

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 NPDES: NC SC NC SC NC SC NC SC NC SC NC SC
 UST: NC SC NC SC NC SC NC SC
 CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 4.6
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

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

Full-Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/529-0409
 Client Company Name: AMEC E+E
 Report To/Contact Name: Helen Corley
 Reporting Address: 101 W Friendly Ave Ste 603
Greensboro, NC 27401
 Phone: 336-641-5398 Fax (Yes) (No):
 Email (Yes) (No) Email Address: helen.corley@amec.com
 EDD Type: PDF Excel Other
 Site Location Name: Site #1
 Site Location Physical Address: Haywood County

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
S1-55-1 (6-13)	9-2-09	830	Soil	G/Voa	4	20' 2x2x1		PRO/RES	X X	256909
S1-55-2 (5-7)		840								256910
S1-56-1 (6-8)		955								256911
S1-56-2 (6-12)		1000								256912
S1-57-1 (8-10)		1100								256913
S1-58-1 (5-7)		1115								256914
S1-59-1 (7-9)		1315								256915
S1-510-1 (8-10)		1410								256916
S1-511-1 (6-8)		1445								256917
S1-512-1 (5-8)		1515								256918

PRISM USE ONLY

Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

Additional Comments:
 Date: 9/3/09 Military/Hours: 10.14
 Date: 9/3/09 Date: 10.14
 Group No. 50409092

Sampled By (Print Name) Troy L Holzschuh Affiliation AMEC
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.
 Relinquished By: (Signature) Troy L Holzschuh Received By: (Signature) Troy L Holzschuh
 Relinquished By: (Signature) Troy L Holzschuh Received By: (Signature) Troy L Holzschuh
 Relinquished By: (Signature) Troy L Holzschuh Received By: (Signature) Troy L Holzschuh
 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 QC UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other

CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)
 NPDES: NC SC US: NC SC DRINKING WATER: NC SC SOLID WASTE: NC SC RCRA: NC SC CERCLA: NC SC LANDFILL: NC SC OTHER: NC SC VOA: NC SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL