



**NC Department of Transportation
Preliminary Site Assessment
State Project: U-0209B
WBS Element: 34749.1.1**

**Kenneth D Sauder Property
Parcel #78
August 19, 2010**

**AMEC Earth and Environmental, Inc. of North Carolina
AMEC Project: 562110209**



Troy L. Holzschuh
Engineering Technician



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





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1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Request for Proposal, dated May 26, 2010, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for the Kenneth D Sauder Property (the Site) to be affected by a road improvement project along US Highway (Hwy) 74, Independence Blvd. The Site operates as the Tire Kingdom and is identified as Parcel #78 within the NCDOT U-0209B design project. The property, located on the east side of US Hwy 74 near the intersection with Charleston Drive, is in Charlotte of Mecklenburg County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated June 16, 2010.

NCDOT contracted AMEC to perform a PSA on the Kenneth D Sauder Property due to the historical presence of an underground storage tank (UST) on the property. The property currently operates as an automobile repair shop and tire sales store. 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). This parcel will be a total take by the NCDOT for construction of the future Sharon Amity overpass. The investigation was specifically completed to determine the presence or absence of petroleum hydrocarbons within 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 ROW and estimates the extent of soil contamination.

1.1 Site Location and History

The Kenneth D Sauder Property is located on the eastern side of US Hwy 74, at the intersection of Charleston Drive in Charlotte, Mecklenburg County, North Carolina. It is located within the Metamorphic sediments of the Charlotte and Milton Belt Physiographic Province of western North Carolina. Figure 1 shows the site location and vicinity.

AMEC studied the NCDENR UST Registered Tanks Database and identified that one 500 gallon oil (new/used/mixture) tank was installed at General Tire Service at 4701 E Independence Blvd in 1971 and was closed in 1988. AMEC also reviewed the NCDENR Incident Management Database and identified Incident #19185 for General Tire at 4701

East Independence Boulevard in Charlotte, NC. The incident was reported September 12, 1994, however the incident occurrence and clean up date are February 1, 1991. Petroleum soil contamination was reported as the result of a leak from a noncommercial tank. The incident was closed September 27, 1994.

1.2 Site Description

The Site is a one-story building with multiple garage bays. The proposed road widening will traverse the entire property of Parcel #78. No UST are presently located at this facility. Two monitoring wells were observed at the property, which are assumed to be still in place from the assessment activities in the early 19902. Appendix A includes a photo log for Parcel #78.

The properties north, south and west of the Site are commercial businesses. Adjacent to the north of the Site is Mattress Firm. Adjacent to the South is Machu Picchu Restaurant. Across US Hwy 74 to the west are vacant buildings. Properties east of the Site are residential homes.

2.0 GEOLOGY

2.1 Regional Geology

The Kenneth D Sauder Property is located within the Metamorphic type rocks of the Charlotte and Milton Belt Physiographic Province of western North Carolina. The Metavolcanic rock is interbedded felsic to mafic tuffs and flowrock.

2.2 Site Geology

Site geology was observed through the sampling of 7 shallow direct push probe soil borings (SB) onsite. Borings extended to a total depth of 10 feet below ground surface (bgs), however refusal was encountered at 4.5 feet bgs in SB-1. Soils generally consisted of orange, well sorted, clayey silt. Boring logs are presented in Appendix B.

Damp soil conditions were typically first encountered at a depth of 0.5 feet (ft) below ground surface (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 on June 29 to report the proposed drilling activities and subsequently notify all affected utilities for the parcel. A.E. Drilling Services, LLC (AE Drilling) of Greenville, South Carolina was retained by AMEC to perform the direct push sampling for soil borings. AMEC coordinated with Schnabel Engineering South (Schnabel) who performed two geophysical surveys (electromagnetic and ground penetrating radar) onsite during June. The geophysical results were reviewed and discussed at the completion of each survey. A private utility locating company, Priority Underground Locating of Huntersville, North Carolina was subcontracted on July 2, 2010 to clear the proposed drill locations that were marked in the field by AMEC personnel. Prism Laboratories, Inc. was contacted for acquisition of sample bottles. Soil boring locations were focused within the proposed expanded ROW, using a staggered soil boring placement pattern to optimize the likelihood of intercepting any potential soil contamination.

3.2 Site Reconnaissance

AMEC and NCDOT Geotechnical Unit personnel completed site reconnaissance on June 3 and AMEC continued recon on June 29, 2010. During reconnaissance, the area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the subsurface investigation and the number of boring locations was discussed. Boring locations were marked on July 2, 2010.

3.3 Geophysical Survey

Schnabel performed the geophysical surveys from June 14 through June 24. Schnabel utilized a Geonics EM61-MK2 to perform the electromagnetic induction surveys and a Geophysical Survey Systems SIR-3000 to conduct the ground-penetrating radar (GPR) investigations. These instruments are specifically calibrated to detect metal anomalies that are buried deeply and are characteristically large. The data collected by Schnabel do not indicate the presence of underground storage tanks (USTs) within the proposed expanded ROW. The complete report can be found in Appendix C.

3.4 Well Survey

No well survey was performed as part of this PSA; however two monitoring wells were noted near the south eastern edge of the Parcel as shown in Figure 2. A depth to water level of 10.91 ft bgs was measured in the monitoring well at the side of the building and nearby SB-2. The other monitoring well could not be accessed due to a parked car.

3.5 Soil Sampling

Soil boring occurred on July 8, 2010 at Parcel #78. Seven direct push soil borings were conducted within the proposed expanded ROW on Parcel #78. 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 at the suspected location for a historic UST near the building. Soil borings SB-2 and SB-3 were located southwest along the building. Soil boring SB-4 was placed along the northern extent of the property boundary and adjacent to the proposed NCDOT cut/fill line. Soil borings SB-5 through SB-7 were positioned in areas of future catch basins within the expanded ROW.

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. At this Site, three soil samples were also analyzed for volatile organic compounds (VOC) by Method 8260B. These samples were from borings SB-1, -2 and -3 that are located closest to the building.

Once placed in the containers, all 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 SOIL SAMPLING RESULTS

AMEC conducted soil sampling at the Site on July 8, 2010. 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 7 completed soil borings from Parcel #78. Typically, when impacted soil is identified, additional soil samples are obtained. However, PID readings did not warrant any additional samples. Analyses of soil samples for DRO indicated one boring location with a concentration above the 10 mg/kg NCDENR Initial Action Level for TPH in soil. Sample P78-SB-3 from boring SB-3 at the 4-5 ft bgs interval was reported with 22 mg/kg. This boring was located just outside a garage bay in an asphalt driveway and near one of the formerly used monitor wells. GRO concentrations did not exceed the NCDENR Initial Action Level for TPH.

Samples SB-1 @3-4 ft, SB-2 @4-5 ft and SB-3 @4-5 were the 3 samples analyzed also for VOC. Those VOC analyses reported that no compounds were identified above the reporting limits in the 3 samples.

Copies of the original laboratory report and chain-of-custody documentation are included as Appendix D.

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 July 8, 2010.

- The property currently operates as the Tire Kingdom, a repair shop and tire sales store.
- Hydraulic lifts are used within the building.

- UST Database for Incident Management and Registered Facilities identifies the parcel as Incident #19185, which was closed out in 1991.
- Seven soil samples were collected and analyzed for TPH GRO and DRO.
- Laboratory analyses of soil samples reported only one TPH detection; a DRO concentration in soil boring SB-3 at 22 mg/kg, which indicates minor localized contamination.
- Three soil samples collected closest to the building were also analyzed for VOCs and no compounds were reported as detected.

6.0 RECOMMENDATIONS

If NCDOT intercepts soil in the contaminated area, AMEC recommends the following action:

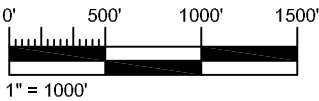
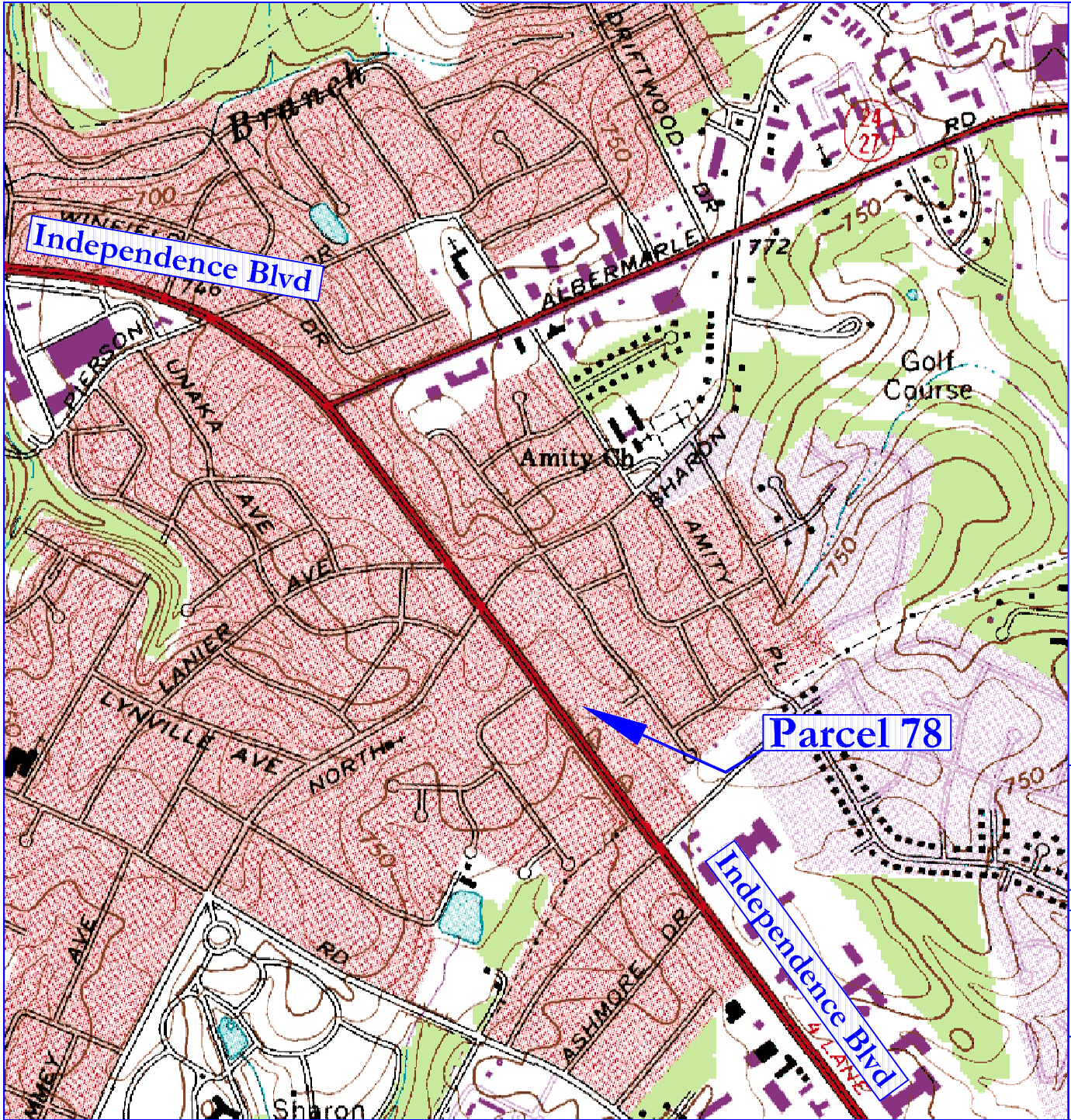
- Segregation during soil excavation with proper disposal of potentially petroleum-impacted soil during roadway improvement construction operations.

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Parcel 78, Kenneth Sauder Property (Tire Kingdom)
NC DOT
Charlotte, North Carolina

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (ft bgs)	PID READINGS (ppm)	EPA Method 8015B	
				DRO (mg/kg)	GRO (mg/kg)
NC Action Levels				10	10
P78-SB-1	7/8/2010	3 - 4	0	<7.4	<4.7
P78-SB-2	7/8/2010	4 - 5	0	<10	<6.6
P78-SB-3	7/8/2010	4 - 5	0	22	<4.9
P78-SB-4	7/8/2010	4 - 5	0	<8.7	<5.1
P78-SB-5	7/8/2010	4 - 5	0	<8.5	<4.8
P78-SB-6	7/8/2010	4 - 5	0	<8.5	<4.5
P78-SB-7	7/8/2010	4 - 5	0	<8.8	<4.7
NOTES: bgs = below ground surface; ppm = parts per million 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					

FIGURES



7.5 Minute Quadrangle
 North Carolina, 1983
 Photorevised 1993

VICINITY MAP

Parcel #78, Kenneth D Sauder Property
 (Tire Kingdom)
 Mecklenburg County, NC

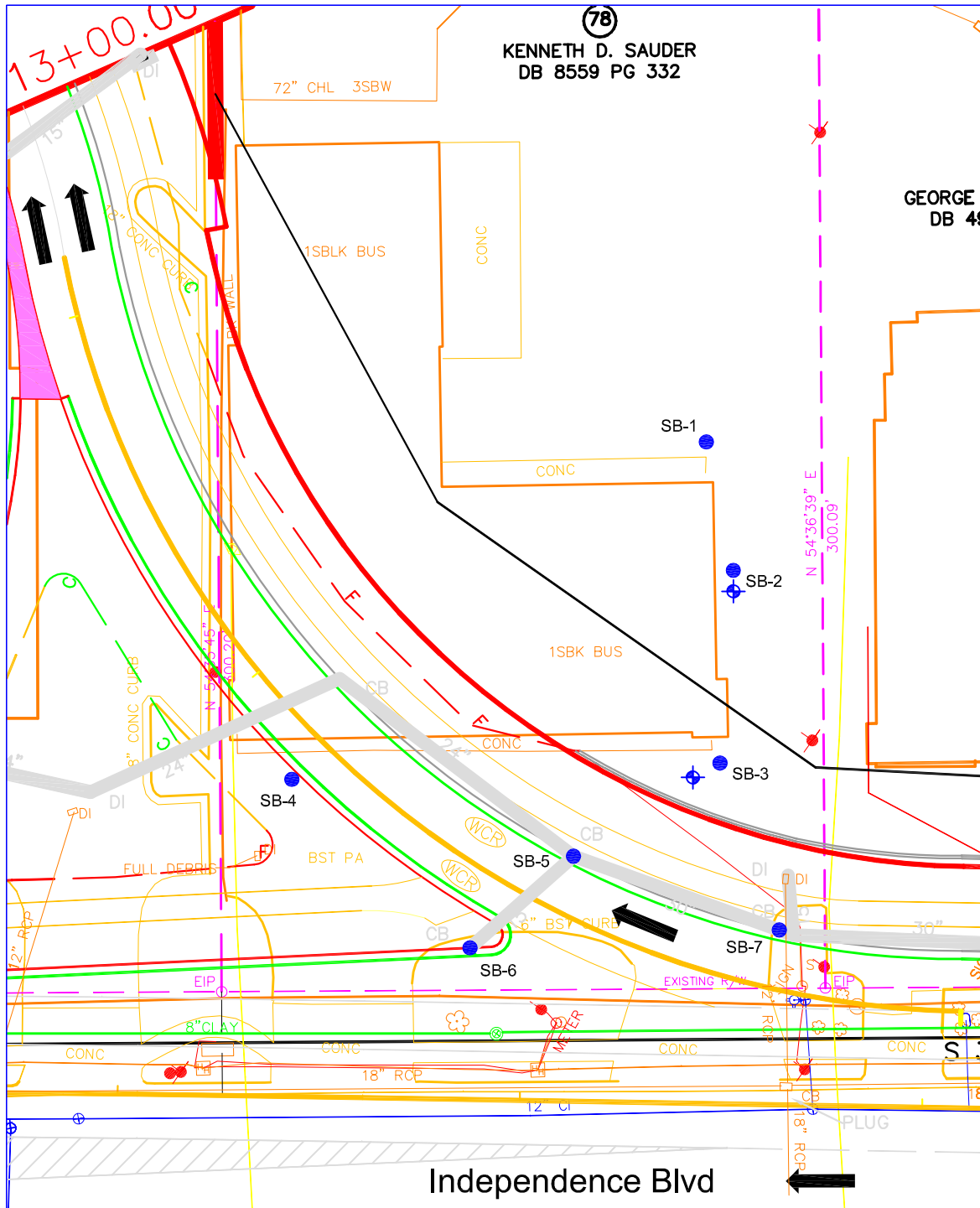
DRAWING NAME: J:\NCDOT\Independence\FIC1 DATE: 8/16/10

SCALE: 1 INCH = 1,000 FEET DR TLH CHK HPC REV

PREPARED FOR:
 NC Department Of Transportation
 Geotechnical Unit
 WBS Element: 34749.1.1
 TIP# U-0209B

Prepared By:
 338 N Elm Ave
 Suite 112
 Greensboro, NC 27401
 (336) 691-5398

Figure:
 Figure 1



LEGEND



Proposed Right of Way



Existing Right of Way



Property Boundaries

C



Cut/Fill Line

F



Cut/Fill Line



Boring Locations



Monitoring Well Locations

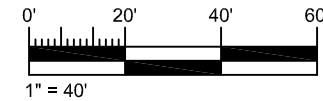
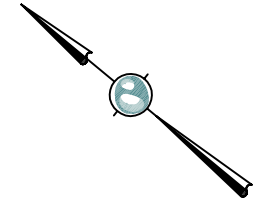
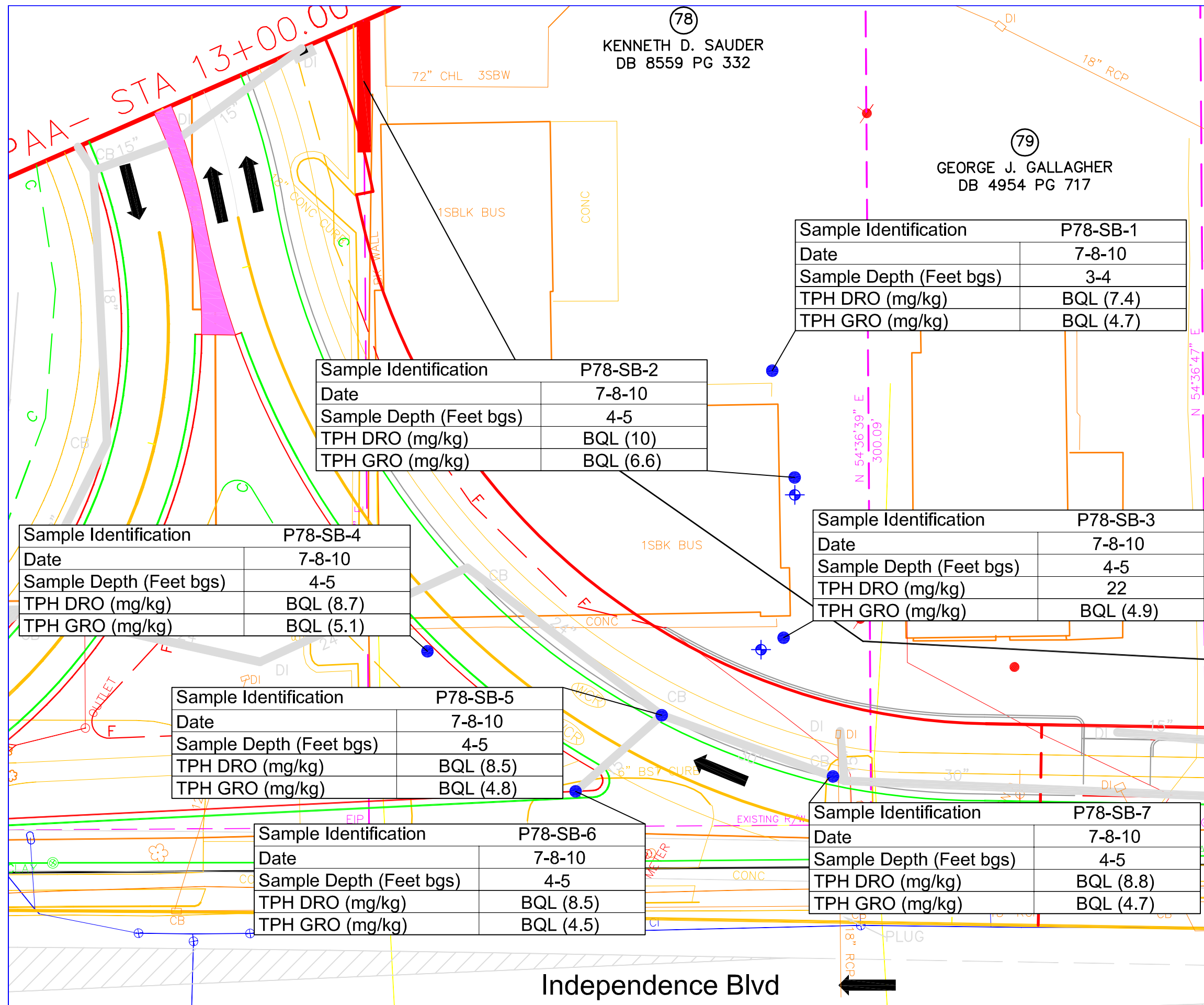


Figure 2
Site Map With Sample Locations
Parcel 78 Kenneth D Sauder Property
(Tire Kingdom)

NC Department of Transportation
Geotechnical Unit
WBS Element: 34749.1.1
TIP# U-0209B



EARTH & ENVIRONMENTAL, INC.
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LEGEND

- Proposed Right of Way
- Existing Right of Way
- Property Boundaries
- Cut/Fill Line
- Cut/Fill Line
- Boring Locations
- Monitoring Well Locations
- Analytical Data Box
- Below Quantitative Limits

Sample Identification	P78-SB-3
Date	7-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	22
TPH GRO (mg/kg)	BQL (4.9)

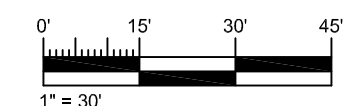
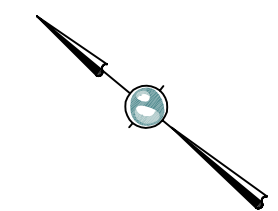


Figure 3
Site Map With Analytical Data
Parcel 78 Kenneth D Sauder Property
(Tire Kingdom)

NC Department of Transportation
Geotechnical Unit
WBS Element: 34749.1.1
TIP# U-0209B

APPENDIX A

PHOTO LOG



Photo 1

Viewing west from the east-central portion of the site. Suspected ust area. Geoprobe hit concrete and had refusal at 4.5 feet.

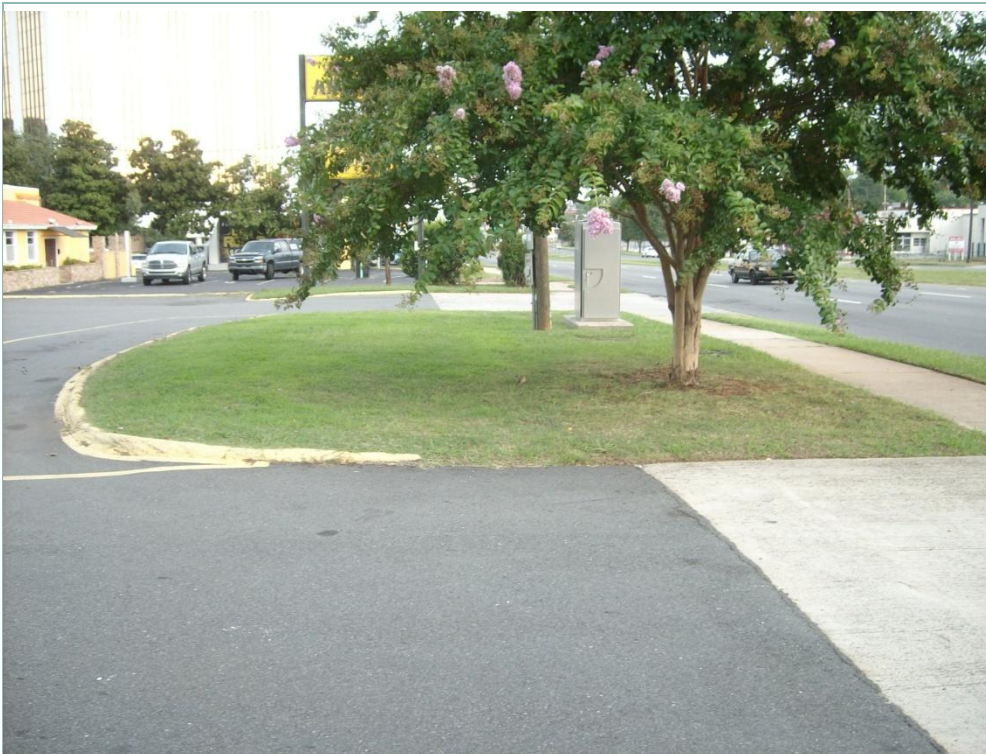


Photo 2

Viewing east from the south western corner of the site. Boring locations were strategically placed over proposed catch basins.



338 North Elm Street, Suite 112
Greensboro, North Carolina 27401

W.O. 562110209
PROCESSED TLH
DATE July 2010
PAGE 1

PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 78 Kenneth D Sauder Property (Tire
Kingdom) Independence Blvd., Charlotte, NC

APPENDIX B
BORING LOGS



AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P78-SB2	Site Name: Parcel 78
Date: 7-8-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-6.5	0		Orange, Well Sorted, Clayey Silt, Damp
6.5-10	0		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P78-SB3	Site Name: Parcel 78
Date: 7-8-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-10	0		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



AMEC Earth & Environmental, Inc. BORING LOG

Boring/Well No.: P78-SB4	Site Name: Parcel 78
Date: 7-8-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1	0		Red, Well Sorted, Clayey Silt, Damp
1-10	0		Yellow/White, Well Sorted, Marbled Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P78-SB5	Site Name: Parcel 78
Date: 7-8-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1	0		Yellow, Fine Sand, Damp
1-4	0		Orange, Well Sorted, Clayey Silt, Damp
4-10	0		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P78-SB7	Site Name: Parcel 78
Date: 7-8-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Grass/Organic Soil
0.5-6.5	0		Orange, Well Sorted, Clayey Silt, Damp
6.5-10	0		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

APPENDIX C
GEOPHYSICAL SURVEY REPORT



July 12, 2010

Ms. Helen Corley, LG
AMEC Earth & Environmental of North Carolina, Inc.
338 North Elm Street, Suite 112
Greensboro, North Carolina 27401

RE: State Project: U-0209B
 WBS Element: 34749.1.1
 County: Mecklenburg
 Description: Charlotte – US 74 (Independence Boulevard) from NC 24-27 (Albemarle Road) to Idlewild Road

**Subject: Project 09210013.25, Report on Geophysical Surveys
 Parcel 78, Mecklenburg County, North Carolina**

Dear Ms. Corley:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject site. The report includes one 11x17 color figure.

INTRODUCTION

The work described in this report was conducted on June 14, 15, 16, 22, 23, 24, and 29, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted within the accessible portions of the entire parcel as indicated by the NCDOT to support their environmental assessment of Parcel 78 (Kenneth D. Sauder Property). The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the parcel.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies, including areas of reinforced concrete, were conducted using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna.

FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (manholes, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of UST's. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

Preliminary results for Parcel 78 were sent to Helen Corley and Troy Holzschuh of AMEC and Ethan Caldwell of the NCDOT on July 2, 2010.

DISCUSSION OF RESULTS

We used a rental EM61 for the data collection on this project. We discovered that this rental unit had an intermittent short in the top coil, which made the differential data unreliable. The data collected from just the bottom coil was not affected by this problem. Only the early time gate data collected from the bottom coil were used to determine anomalous locations to survey with GPR.

The contoured early time gate EM61 data for Parcel 78 are shown on Figure 1. The early time gate data provide the more sensitive detection of metal objects. The early time gate results show anomalies apparently caused by reinforced concrete, buried utilities, or known site features (Figure 1). The GPR data collected at the site do not indicate the presence of metallic UST's in the areas surveyed.

CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 78 on Project U-0209B in Charlotte, NC indicates the following:

The geophysical data do not indicate the presence of metallic UST's in the areas surveyed on Parcel 78.

LIMITATIONS

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

We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC



Jeremy S Strohmeyer, LG
Project Manager

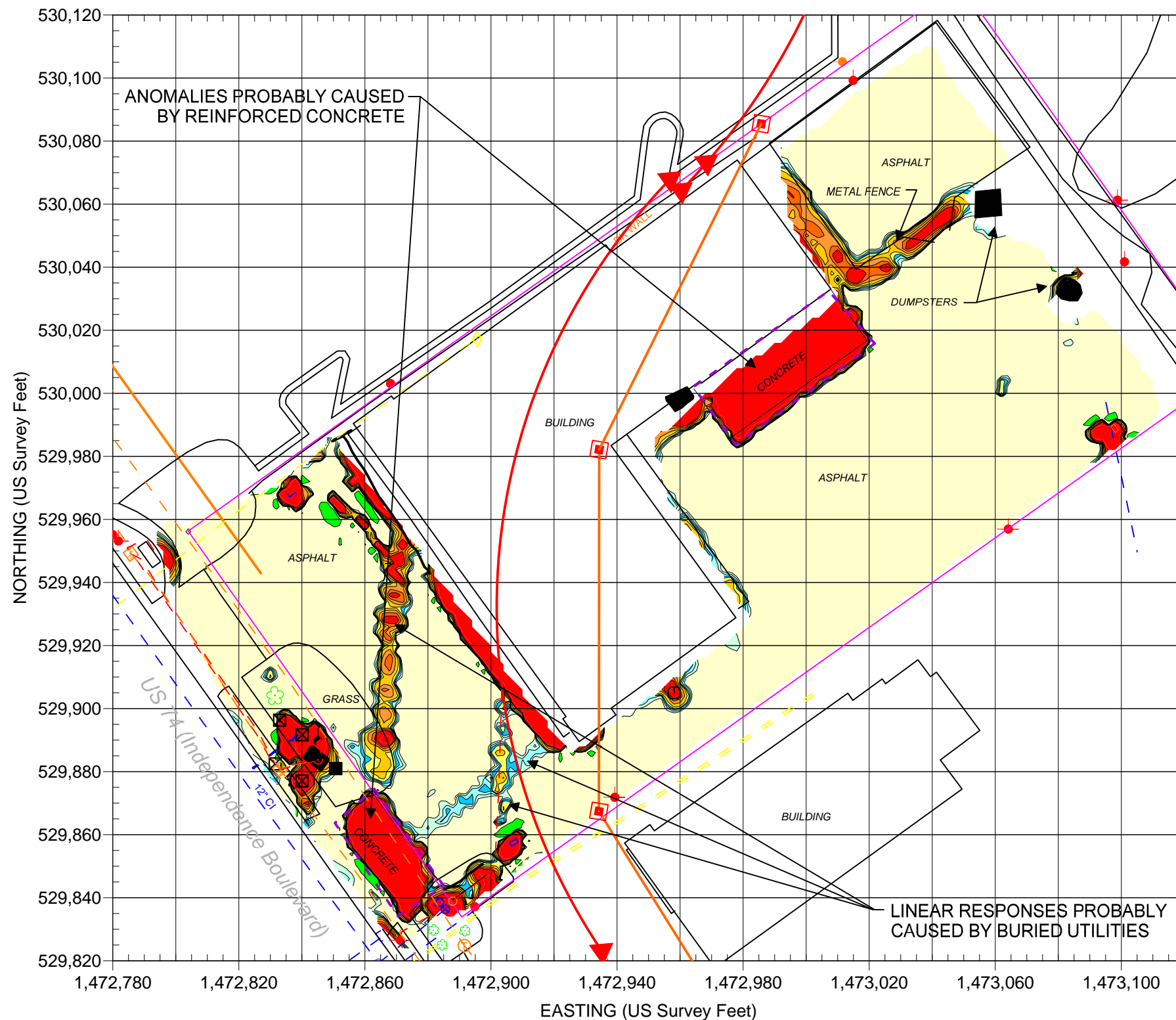


Edward D Billington, LG
Senior Vice President

JS:JW:NB

Attachments: Figure 1

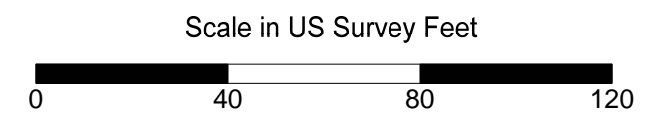
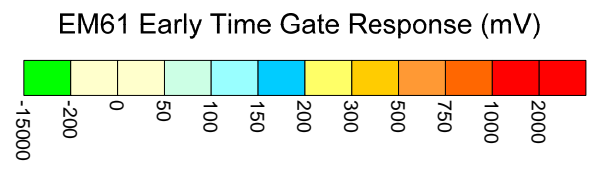
FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.25 (U-0209B, MECKLENBURG CO.)\REPORT\PARCEL 78\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 78.DOCX



EXPLANATION

	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	STORM SEWER INLET
	UST LID
	MONITORING WELL
	DOT PROPOSED RW
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
	EXAMPLE GPR LINE LOCATION
	GPR SURVEY AREA
	LOCATION OF KNOWN UST MARKED ON SITE

REF.: NCDOT FILE: u-0209b_rdy_psh_07_rwa.dgn
(FOR SOME SITE FEATURES)



Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on June 14 through June 16, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on June 22 through June 24, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	<p>STATE PROJECT U-0209B NC DEPARTMENT OF TRANSPORTATION MECKLENBURG COUNTY, NC PROJECT NO. 09210013.25</p>	<p>PARCEL 78 EM61 EARLY TIME GATE RESPONSE FIGURE 1</p>
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APPENDIX D

LABORATORY ANALYTICAL RESULTS

AMEC Earth & Env. Inc.(DOT Gree)
Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd. Parcel 78
Project No.: WBS #34749.1.1
Lab Submittal Date: 07/09/2010
Prism Work Order: 0070232

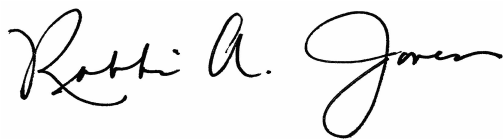
This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

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

Respectfully,

PRISM LABORATORIES, INC.



President/Project Manager



Reviewed By

Data Qualifiers Key Reference:

A	Surrogate recovery above control limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P78-SB-1 (3-4)	0070232-01	Solid	07/08/10	07/09/10
P78-SB-2 (4-5)	0070232-02	Solid	07/08/10	07/09/10
P78-SB-3 (4-5)	0070232-03	Solid	07/08/10	07/09/10
P78-SB-4 (4-5)	0070232-04	Solid	07/08/10	07/09/10
P78-SB-5 (4-5)	0070232-05	Solid	07/08/10	07/09/10
P78-SB-6 (4-5)	0070232-06	Solid	07/08/10	07/09/10
P78-SB-7 (4-5)	0070232-07	Solid	07/08/10	07/09/10

Samples received in good condition at 4.0 degrees C unless otherwise noted.

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P78-SB-1 (3-4)
Prism Sample ID: 0070232-01
Prism Work Order: 0070232
Time Collected: 07/08/10 14:15
Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	7.4	1.2	1	*8015C	7/19/10 12:59	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			87 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.7	0.62	50	*8015C	7/20/10 1:08	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			95 %		55-129	

General Chemistry Parameters

% Solids	94.0	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0046	0.0010	1	8260B	7/14/10 17:15	KLA	P0G0241
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
1,1-Dichloroethane	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
1,1-Dichloroethylene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
1,1-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00095	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.0015	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0046	0.0019	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2-Dibromoethane	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2-Dichloroethane	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
1,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.0014	1	8260B	7/14/10 17:15	KLA	P0G0241
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
1,3-Dichloropropane	BRL	mg/kg dry	0.0046	0.00094	1	8260B	7/14/10 17:15	KLA	P0G0241
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
2,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
2-Chlorotoluene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
4-Chlorotoluene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
4-Isopropyltoluene	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
Acetone	BRL	mg/kg dry	0.046	0.0020	1	8260B	7/14/10 17:15	KLA	P0G0241
Benzene	BRL	mg/kg dry	0.0027	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Bromobenzene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
Bromochloromethane	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Bromodichloromethane	BRL	mg/kg dry	0.0046	0.0010	1	8260B	7/14/10 17:15	KLA	P0G0241
Bromoform	BRL	mg/kg dry	0.0046	0.00099	1	8260B	7/14/10 17:15	KLA	P0G0241
Bromomethane	BRL	mg/kg dry	0.0091	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Carbon Tetrachloride	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241

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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
 Parcel 78
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P78-SB-1 (3-4)
 Prism Sample ID: 0070232-01
 Prism Work Order: 0070232
 Time Collected: 07/08/10 14:15
 Time Submitted: 07/09/10 11:13

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0046	0.0010	1	8260B	7/14/10 17:15	KLA	P0G0241
Chloroethane	BRL	mg/kg dry	0.0091	0.0024	1	8260B	7/14/10 17:15	KLA	P0G0241
Chloroform	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
Chloromethane	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
Dibromochloromethane	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
Dichlorodifluoromethane	BRL	mg/kg dry	0.0046	0.00094	1	8260B	7/14/10 17:15	KLA	P0G0241
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00095	1	8260B	7/14/10 17:15	KLA	P0G0241
Isopropyl Ether	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0046	0.0010	1	8260B	7/14/10 17:15	KLA	P0G0241
m,p-Xylenes	BRL	mg/kg dry	0.0091	0.0024	1	8260B	7/14/10 17:15	KLA	P0G0241
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.046	0.0014	1	8260B	7/14/10 17:15	KLA	P0G0241
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.091	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.046	0.00099	1	8260B	7/14/10 17:15	KLA	P0G0241
Methylene Chloride	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0091	0.00095	1	8260B	7/14/10 17:15	KLA	P0G0241
Naphthalene	BRL	mg/kg dry	0.0091	0.0025	1	8260B	7/14/10 17:15	KLA	P0G0241
n-Butylbenzene	BRL	mg/kg dry	0.0046	0.0017	1	8260B	7/14/10 17:15	KLA	P0G0241
n-Propylbenzene	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
o-Xylene	BRL	mg/kg dry	0.0046	0.0010	1	8260B	7/14/10 17:15	KLA	P0G0241
sec-Butylbenzene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Styrene	BRL	mg/kg dry	0.0046	0.00089	1	8260B	7/14/10 17:15	KLA	P0G0241
tert-Butylbenzene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Tetrachloroethylene	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Toluene	BRL	mg/kg dry	0.0046	0.0011	1	8260B	7/14/10 17:15	KLA	P0G0241
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00090	1	8260B	7/14/10 17:15	KLA	P0G0241
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00091	1	8260B	7/14/10 17:15	KLA	P0G0241
Trichloroethylene	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
Trichlorofluoromethane	BRL	mg/kg dry	0.0046	0.0013	1	8260B	7/14/10 17:15	KLA	P0G0241
Vinyl acetate	BRL	mg/kg dry	0.023	0.0031	1	8260B	7/14/10 17:15	KLA	P0G0241
Vinyl chloride	BRL	mg/kg dry	0.0046	0.0012	1	8260B	7/14/10 17:15	KLA	P0G0241
Xylenes, total	BRL	mg/kg dry	0.014	0.0034	1	8260B	7/14/10 17:15	KLA	P0G0241

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	111 %	70-130
Dibromofluoromethane	106 %	84-123
Toluene-d8	101 %	76-129

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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
 Parcel 78
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P78-SB-2 (4-5)
 Prism Sample ID: 0070232-02
 Prism Work Order: 0070232
 Time Collected: 07/08/10 14:30
 Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	10	1.9	1	*8015C	7/19/10 13:35	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			78 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.6	0.86	50	*8015C	7/20/10 1:39	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			100 %		55-129	

General Chemistry Parameters

% Solids	59.7	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
1,1-Dichloroethane	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
1,1-Dichloroethylene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
1,1-Dichloropropylene	BRL	mg/kg dry	0.0057	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.0019	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0057	0.0024	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2-Dibromoethane	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2-Dichloroethane	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
1,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.0017	1	8260B	7/14/10 17:45	KLA	P0G0241
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
1,3-Dichloropropane	BRL	mg/kg dry	0.0057	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
2,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
2-Chlorotoluene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
4-Chlorotoluene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
4-Isopropyltoluene	BRL	mg/kg dry	0.0057	0.0017	1	8260B	7/14/10 17:45	KLA	P0G0241
Acetone	BRL	mg/kg dry	0.057	0.0025	1	8260B	7/14/10 17:45	KLA	P0G0241
Benzene	BRL	mg/kg dry	0.0034	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Bromobenzene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Bromochloromethane	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
Bromodichloromethane	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
Bromoform	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
Bromomethane	BRL	mg/kg dry	0.011	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Carbon Tetrachloride	BRL	mg/kg dry	0.0057	0.0017	1	8260B	7/14/10 17:45	KLA	P0G0241

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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
 Parcel 78
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P78-SB-2 (4-5)
 Prism Sample ID: 0070232-02
 Prism Work Order: 0070232
 Time Collected: 07/08/10 14:30
 Time Submitted: 07/09/10 11:13

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
Chloroethane	BRL	mg/kg dry	0.011	0.0030	1	8260B	7/14/10 17:45	KLA	P0G0241
Chloroform	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Chloromethane	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Dibromochloromethane	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Dichlorodifluoromethane	BRL	mg/kg dry	0.0057	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
Ethylbenzene	BRL	mg/kg dry	0.0057	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
Isopropyl Ether	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0031	1	8260B	7/14/10 17:45	KLA	P0G0241
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.057	0.0017	1	8260B	7/14/10 17:45	KLA	P0G0241
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.057	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
Methylene Chloride	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.0012	1	8260B	7/14/10 17:45	KLA	P0G0241
Naphthalene	BRL	mg/kg dry	0.011	0.0031	1	8260B	7/14/10 17:45	KLA	P0G0241
n-Butylbenzene	BRL	mg/kg dry	0.0057	0.0021	1	8260B	7/14/10 17:45	KLA	P0G0241
n-Propylbenzene	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
o-Xylene	BRL	mg/kg dry	0.0057	0.0013	1	8260B	7/14/10 17:45	KLA	P0G0241
sec-Butylbenzene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Styrene	BRL	mg/kg dry	0.0057	0.0011	1	8260B	7/14/10 17:45	KLA	P0G0241
tert-Butylbenzene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Tetrachloroethylene	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Toluene	BRL	mg/kg dry	0.0057	0.0014	1	8260B	7/14/10 17:45	KLA	P0G0241
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.0011	1	8260B	7/14/10 17:45	KLA	P0G0241
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.0011	1	8260B	7/14/10 17:45	KLA	P0G0241
Trichloroethylene	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
Trichlorofluoromethane	BRL	mg/kg dry	0.0057	0.0016	1	8260B	7/14/10 17:45	KLA	P0G0241
Vinyl acetate	BRL	mg/kg dry	0.029	0.0039	1	8260B	7/14/10 17:45	KLA	P0G0241
Vinyl chloride	BRL	mg/kg dry	0.0057	0.0015	1	8260B	7/14/10 17:45	KLA	P0G0241
Xylenes, total	BRL	mg/kg dry	0.017	0.0043	1	8260B	7/14/10 17:45	KLA	P0G0241

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	119 %	70-130
Dibromofluoromethane	109 %	84-123
Toluene-d8	111 %	76-129

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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
 Parcel 78
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P78-SB-3 (4-5)
 Prism Sample ID: 0070232-03
 Prism Work Order: 0070232
 Time Collected: 07/08/10 14:50
 Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	22	mg/kg dry	8.9	1.4	1	*8015C	7/19/10 14:10	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			93 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.9	0.63	50	*8015C	7/20/10 2:10	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			98 %		55-129	

General Chemistry Parameters

% Solids	78.4	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,1-Dichloroethane	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
1,1-Dichloroethylene	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
1,1-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00091	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.0014	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0044	0.0018	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2-Dibromoethane	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2-Dichloroethane	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
1,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.0013	1	8260B	7/14/10 18:14	KLA	P0G0241
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
1,3-Dichloropropane	BRL	mg/kg dry	0.0044	0.00090	1	8260B	7/14/10 18:14	KLA	P0G0241
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
2,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
2-Chlorotoluene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
4-Chlorotoluene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
4-Isopropyltoluene	BRL	mg/kg dry	0.0044	0.0013	1	8260B	7/14/10 18:14	KLA	P0G0241
Acetone	BRL	mg/kg dry	0.044	0.0019	1	8260B	7/14/10 18:14	KLA	P0G0241
Benzene	BRL	mg/kg dry	0.0026	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Bromobenzene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Bromochloromethane	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Bromodichloromethane	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
Bromoform	BRL	mg/kg dry	0.0044	0.00095	1	8260B	7/14/10 18:14	KLA	P0G0241
Bromomethane	BRL	mg/kg dry	0.0087	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Carbon Tetrachloride	BRL	mg/kg dry	0.0044	0.0013	1	8260B	7/14/10 18:14	KLA	P0G0241

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AMEC Earth & Env. Inc.(DOT Gree)
 Attn: Helen Corley
 338 North Elm St. Suite 112
 Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
 Parcel 78
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P78-SB-3 (4-5)
 Prism Sample ID: 0070232-03
 Prism Work Order: 0070232
 Time Collected: 07/08/10 14:50
 Time Submitted: 07/09/10 11:13

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0044	0.00099	1	8260B	7/14/10 18:14	KLA	P0G0241
Chloroethane	BRL	mg/kg dry	0.0087	0.0023	1	8260B	7/14/10 18:14	KLA	P0G0241
Chloroform	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Chloromethane	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.0010	1	8260B	7/14/10 18:14	KLA	P0G0241
Dibromochloromethane	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Dichlorodifluoromethane	BRL	mg/kg dry	0.0044	0.00090	1	8260B	7/14/10 18:14	KLA	P0G0241
Ethylbenzene	BRL	mg/kg dry	0.0044	0.00091	1	8260B	7/14/10 18:14	KLA	P0G0241
Isopropyl Ether	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0044	0.00098	1	8260B	7/14/10 18:14	KLA	P0G0241
m,p-Xylenes	BRL	mg/kg dry	0.0087	0.0023	1	8260B	7/14/10 18:14	KLA	P0G0241
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.044	0.0013	1	8260B	7/14/10 18:14	KLA	P0G0241
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.087	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.044	0.00095	1	8260B	7/14/10 18:14	KLA	P0G0241
Methylene Chloride	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0087	0.00091	1	8260B	7/14/10 18:14	KLA	P0G0241
Naphthalene	BRL	mg/kg dry	0.0087	0.0024	1	8260B	7/14/10 18:14	KLA	P0G0241
n-Butylbenzene	BRL	mg/kg dry	0.0044	0.0016	1	8260B	7/14/10 18:14	KLA	P0G0241
n-Propylbenzene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
o-Xylene	BRL	mg/kg dry	0.0044	0.00097	1	8260B	7/14/10 18:14	KLA	P0G0241
sec-Butylbenzene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Styrene	BRL	mg/kg dry	0.0044	0.00085	1	8260B	7/14/10 18:14	KLA	P0G0241
tert-Butylbenzene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Tetrachloroethylene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Toluene	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00086	1	8260B	7/14/10 18:14	KLA	P0G0241
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00087	1	8260B	7/14/10 18:14	KLA	P0G0241
Trichloroethylene	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Trichlorofluoromethane	BRL	mg/kg dry	0.0044	0.0012	1	8260B	7/14/10 18:14	KLA	P0G0241
Vinyl acetate	BRL	mg/kg dry	0.022	0.0030	1	8260B	7/14/10 18:14	KLA	P0G0241
Vinyl chloride	BRL	mg/kg dry	0.0044	0.0011	1	8260B	7/14/10 18:14	KLA	P0G0241
Xylenes, total	BRL	mg/kg dry	0.013	0.0033	1	8260B	7/14/10 18:14	KLA	P0G0241

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	111 %	70-130
Dibromofluoromethane	108 %	84-123
Toluene-d8	103 %	76-129

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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P78-SB-4 (4-5)
Prism Sample ID: 0070232-04
Prism Work Order: 0070232
Time Collected: 07/08/10 15:40
Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	8.7	1.4	1	*8015C	7/19/10 14:46	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			65 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.1	0.67	50	*8015C	7/20/10 2:41	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			114 %		55-129	

General Chemistry Parameters

% Solids	80.0	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P78-SB-5 (4-5)
Prism Sample ID: 0070232-05
Prism Work Order: 0070232
Time Collected: 07/08/10 16:00
Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	*8015C	7/19/10 15:22	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			81 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	*8015C	7/20/10 3:12	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			101 %		55-129	

General Chemistry Parameters

% Solids	81.7	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P78-SB-6 (4-5)
Prism Sample ID: 0070232-06
Prism Work Order: 0070232
Time Collected: 07/08/10 16:10
Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	*8015C	7/19/10 15:57	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			87 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.5	0.59	50	*8015C	7/20/10 3:43	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			102 %		55-129	

General Chemistry Parameters

% Solids	81.7	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P78-SB-7 (4-5)
Prism Sample ID: 0070232-07
Prism Work Order: 0070232
Time Collected: 07/08/10 16:30
Time Submitted: 07/09/10 11:13

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

Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	7/19/10 16:33	JMV	P0G0333
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			84 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.7	0.61	50	*8015C	7/20/10 4:13	HPE	P0G0340
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			106 %		55-129	

General Chemistry Parameters

% Solids	79.1	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257
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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No: WBS #34749.1.1

Prism Work Order: 0070232
Time Submitted: 7/9/10 11:13:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0241 - 5035										
Blank (P0G0241-BLK1)										
Prepared & Analyzed: 07/14/10										
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No: WBS #34749.1.1

Prism Work Order: 0070232
Time Submitted: 7/9/10 11:13:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0241 - 5035										
Blank (P0G0241-BLK1)										
Prepared & Analyzed: 07/14/10										
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	58.1		ug/L	50.0		116	70-130			
Surrogate: Dibromofluoromethane	48.5		ug/L	50.0		97	84-123			
Surrogate: Toluene-d8	52.1		ug/L	50.0		104	76-129			
LCS (P0G0241-BS1)										
Prepared & Analyzed: 07/14/10										
1,1-Dichloroethylene	0.0515	0.0050	mg/kg wet	0.0500		103	67-149			
Benzene	0.0522	0.0030	mg/kg wet	0.0500		104	74-127			
Chlorobenzene	0.0522	0.0050	mg/kg wet	0.0500		104	74-118			
Toluene	0.0494	0.0050	mg/kg wet	0.0500		99	71-129			
Trichloroethylene	0.0543	0.0050	mg/kg wet	0.0500		109	75-133			
Surrogate: 4-Bromofluorobenzene	59.5		ug/L	50.0		119	70-130			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.0		103	84-123			
Surrogate: Toluene-d8	52.9		ug/L	50.0		106	76-129			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No: WBS #34749.1.1

Prism Work Order: 0070232
Time Submitted: 7/9/10 11:13:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0241 - 5035										
LCS Dup (P0G0241-BSD1)										
Prepared & Analyzed: 07/14/10										
1,1-Dichloroethylene	0.0493	0.0050	mg/kg wet	0.0500		99	67-149	4	200	
Benzene	0.0512	0.0030	mg/kg wet	0.0500		102	74-127	2	200	
Chlorobenzene	0.0534	0.0050	mg/kg wet	0.0500		107	74-118	2	200	
Toluene	0.0497	0.0050	mg/kg wet	0.0500		99	71-129	0.5	200	
Trichloroethylene	0.0542	0.0050	mg/kg wet	0.0500		108	75-133	0.3	200	
Surrogate: 4-Bromofluorobenzene	57.0		ug/L	50.0		114	70-130			
Surrogate: Dibromofluoromethane	51.1		ug/L	50.0		102	84-123			
Surrogate: Toluene-d8	53.1		ug/L	50.0		106	76-129			

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Greensboro, NC 27401

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Parcel 78
Project No: WBS #34749.1.1

Prism Work Order: 0070232
Time Submitted: 7/9/10 11:13:00AM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0340 - 5035										
Blank (P0G0340-BLK1)										
Prepared & Analyzed: 07/19/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.70		mg/kg wet	5.00		94	55-129			
LCS (P0G0340-BS1)										
Prepared & Analyzed: 07/19/10										
Gasoline Range Organics	47.9	5.0	mg/kg wet	50.0		96	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.40		mg/kg wet	5.00		108	55-129			
LCS Dup (P0G0340-BSD1)										
Prepared & Analyzed: 07/19/10										
Gasoline Range Organics	49.4	5.0	mg/kg wet	50.0		99	67-116	3	200	
Surrogate: a,a,a-Trifluorotoluene	5.50		mg/kg wet	5.00		110	55-129			

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Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 78
Project No: WBS #34749.1.1

Prism Work Order: 0070232
Time Submitted: 7/9/10 11:13:00AM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0333 - 3545A										
Blank (P0G0333-BLK1)										
					Prepared: 07/16/10 Analyzed: 07/19/10					
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.46		mg/kg wet	1.60		91	49-124			
LCS (P0G0333-BS1)										
					Prepared: 07/16/10 Analyzed: 07/19/10					
Diesel Range Organics	56.6	7.0	mg/kg wet	80.0		71	55-109			
Surrogate: <i>o</i> -Terphenyl	1.80		mg/kg wet	1.60		113	49-124			
LCS Dup (P0G0333-BSD1)										
					Prepared: 07/16/10 Analyzed: 07/19/10					
Diesel Range Organics	58.0	7.0	mg/kg wet	80.0		73	55-109	2	200	
Surrogate: <i>o</i> -Terphenyl	1.85		mg/kg wet	1.60		116	49-124			
Matrix Spike (P0G0333-MS1)										
		Source: 0070232-02			Prepared: 07/16/10 Analyzed: 07/19/10					
Diesel Range Organics	98.0	12	mg/kg dry	134	BRL	73	50-117			
Surrogate: <i>o</i> -Terphenyl	3.13		mg/kg dry	2.67		117	49-124			
Matrix Spike Dup (P0G0333-MSD1)										
		Source: 0070232-02			Prepared: 07/16/10 Analyzed: 07/19/10					
Diesel Range Organics	101	12	mg/kg dry	134	BRL	76	50-117	3	24	
Surrogate: <i>o</i> -Terphenyl	3.37		mg/kg dry	2.67		126	49-124			A

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0070232-01	P0G0333	25.16 g	1 mL	07/16/10
0070232-02	P0G0333	25.05 g	1 mL	07/16/10
0070232-03	P0G0333	25.1 g	1 mL	07/16/10
0070232-04	P0G0333	25.02 g	1 mL	07/16/10
0070232-05	P0G0333	25.2 g	1 mL	07/16/10
0070232-06	P0G0333	25.09 g	1 mL	07/16/10
0070232-07	P0G0333	25.08 g	1 mL	07/16/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0070232-01	P0G0340	5.61 g	5 mL	07/19/10
0070232-02	P0G0340	6.35 g	5 mL	07/19/10
0070232-03	P0G0340	6.56 g	5 mL	07/19/10
0070232-04	P0G0340	6.1 g	5 mL	07/19/10
0070232-05	P0G0340	6.37 g	5 mL	07/19/10
0070232-06	P0G0340	6.77 g	5 mL	07/19/10
0070232-07	P0G0340	6.77 g	5 mL	07/19/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0070232-01	P0G0257	30 g	30 mL	07/14/10
0070232-02	P0G0257	30 g	30 mL	07/14/10
0070232-03	P0G0257	30 g	30 mL	07/14/10
0070232-04	P0G0257	30 g	30 mL	07/14/10
0070232-05	P0G0257	30 g	30 mL	07/14/10
0070232-06	P0G0257	30 g	30 mL	07/14/10
0070232-07	P0G0257	30 g	30 mL	07/14/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0070232-01	P0G0241	5.83 g	5 mL	07/14/10
0070232-02	P0G0241	7.3 g	5 mL	07/14/10
0070232-03	P0G0241	7.3 g	5 mL	07/14/10



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6964 • Fax: 704/525-0409

Client Company Name: AMEC ERG

Report To/Contact Name: Helen Corley

Reporting Address: 338 N Elm St

Greensboro, NC 27401

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

Email: (Yes) (No) Email Address: helen.corley@amec.com

EDD Type: PDF Excel Other _____

Site Location Name: DAVID 78

Site Location Physical Address: _____

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Helen Independence UST Project: (Yes) (No)

Short Hold Analysis: (Yes) (No) provisions attach any project specific reporting (QC LEVEL I III IV)

Invoice To: Helen Corley

Address: Same

Purchase Order No./Billing Reference: WBS 34749.1.1

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

"Working Days" 6-9 Days Standard 10 days Rush Work Must Be 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: <u>4.0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

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	NO.	SIZE				
P78-SB-1(3-9)	7-8-10	1415	Soil					DRD GRD 800 90 50 100		01
P78-SB-2(4-5)		1430								02
P78-SB-3(4-5)		1450								03
P78-SB-4(4-5)		1540								04
P78-SB-5(4-5)		1600								05
P78-SB-6(4-5)		1610								06
P78-SB-7(4-5)		1630								07

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Ray 2 Hyschek 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) Ray 2 Hyschek Received By: (Signature) _____ Date: _____ Military Hours: _____

Relinquished By: (Signature) _____ Received By: (Signature) _____ Date: _____ Military Hours: _____

Relinquished By: (Signature) _____ Received For Prism Laboratories By: _____ Date: 7-9-10 Military Hours: 11:13

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

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

Groundwater: GND SC DRINKING WATER: GND SC SOLID WASTE: GND SC RCRA: GND SC CERCLA: GND SC LANDFILL: GND SC OTHER: GND SC

COG Group No.: 0670232

Additional Comments: _____

SEE REVERSE FOR TERMS & CONDITIONS