

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

> B.V. Investments Property Parcel #17 August 20, 2010

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

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Troy L. Holzschuh Engineering Technician

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





TABLE OF CONTENTS

1.0	.0 INTRODUCTION	1
	1.1 Site Location	1
	1.2 Site Description	2
2.0	.0 GEOLOGY	2
	2.1 Regional Geology	2
	2.2 Site Geology	2
3.0	.0 FIELD ACTIVITIES	3
	3.1 Preliminary Activities	3
	3.1 Preliminary Activities 3.2 Site Reconnaissance	
	-	3
	3.2 Site Reconnaissance	3 3
	3.2 Site Reconnaissance 3.3 Geophysical Survey	3 3 4
4.0	3.2 Site Reconnaissance3.3 Geophysical Survey3.4 Well Survey	3 3 4 4
	 3.2 Site Reconnaissance 3.3 Geophysical Survey 3.4 Well Survey 3.5 Soil Sampling 	



TABLES

Table 1Soil Sampling Analytical Results, DRO-GRO

FIGURES

- Figure 1 Vicinity Map
- Figure 2 Site Map with Sample Locations
- Figure 3 Site Map with Analytical Data
- Figure 4 Site Map with Potential Area of Soil Contamination

APPENDICES

- Appendix A Photo Log
- Appendix B Boring and Well Construction Logs
- Appendix C Geophysical Report
- Appendix D Laboratory Analytical Data



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 B.V. Belk Investments Property (the Site) to be effected by a road improvement project along US Highway (Hwy) 74, Independence Blvd. B.V. Belk Investments owns the property, which is identified as Parcel #17 within the NCDOT U-0209B design project. The property, located on the west side of US Hwy 74 near the intersection with Lanier Avenue, 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 B.V. Belk Investments Property due to historical aerial photography indicating the property once operated as a gas station. A new on and off ramp will be built over the Site. The Site currently operates as retail and office complex, called Lanier Shopping Center. Businesses in the shopping center include Sprint Store, Brazas Brazillian Grill, Namaste India Bar & Restaurant, Middle East Deli, Carolina Kebap, Yesteryears Goodtime Pub, and Carlo's Touch of Italy. 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. 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 ROW and estimates the extent of soil contamination.

1.1 Site Location and History

The B.V. Belk Investments Property is located on the western side of US Hwy 74, at the intersection of Lanier Avenue 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 Database for Incident Management and Registered Facilities and did not find any incidents reported for this site.



1.2 Site Description

One multi-level building (partial single story and partial 2-story) occupies the Site. The proposed DOT project will traverse the entire property of Parcel #17. No underground storage tanks (UST) or monitoring wells are located at this facility. Appendix A includes a photo log for Parcel #17.

The properties west of the Site are residential homes. Properties north, east and south of the Site are commercial businesses. Immediately north is a vacant lot (Parcel #8). Southeast of the Site is a large gas station, Petro Express. South of the Site is an abandoned building.

2.0 GEOLOGY

2.1 Regional Geology

The B.V. Belk Investments Property is located within the Metamorphic 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) except in SB-2 where refusal was met at 7 ft bgs. Soils generally consisted of orange well sorted clayey silt. Boring logs are presented in Appendix B.

Damp soils were typically encountered at 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 to facilitate the location of underground utilities in the vicinity of each 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 the period from June 14 to 24, 2010. 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 to clear the proposed drill locations that had been marked in the field by AMEC. 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 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 boring locations was discussed. Boring locations were marked on July 2, 2010.

3.3 Geophysical Survey

Schnabel performed the geophysical surveys between June 14 and 292010. 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 and no water supply or monitoring wells were observed by AMEC on the site.

3.5 Soil Sampling

Soil boring occurred on July 7, 2010 at Parcel 17. Seven direct push soil borings were conducted within the proposed expanded ROW, which includes all of Parcel 17. 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 based on previous gas station features noted from aerial photographs. The first boring (SB-1) was placed near the northern extent of the Site building, within the proposed fill area of the expanded ROW. Soil borings SB-2 through SB-4 were obtained southeast of SB-1, and originally only four borings were planned at this parcel. SB-1 exhibited elevated Photo lonization Detector (PID) readings; therefore soil borings SB-5 and SB-6 were added nearby SB-1 to the northwest and northeast. Soil boring SB-7 was located northwest due to PID readings in SB-5.

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 in Charlotte, 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 7, 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 17. Typically, when impacted soil is identified, additional soil samples are obtained. PID readings warranted the addition of soil sample P17-SB-5, -SB-6 and -SB-7. Analyses of soil samples for DRO indicated one boring location (SB-5) with a concentration above the 10 mg/kg NCDENR Initial Action Level for TPH in soil. This was sample P17-SB-5at the 5-6 ft bgs interval that was reported with 71 mg/kg DRO. Analyses of soil samples for GRO indicated two boring locations with a concentration above the 10 mg/kg NCDENR Initial Actions with a concentration above the 10 mg/kg NCDENR Initial Actions with a concentration above the 10 mg/kg NCDENR Initial Action Level for TPH in soil. Sample P17-SB-1 from boring SB-1 at the 7-8 ft bgs interval was reported with 1,100 mg/kg. And sample P17-SB-5 from boring SB-5 at the 5-6 ft bgs interval was reported with 22 mg/kg GRO.

An approximate area of petroleum impacted soil situated within the ROW has been drawn and shaded in Figure 4. The actual western edge of the area is unknown due to its location beneath the building. The square footage of the estimated area is 1,270 ft². Assuming an 8ft thickness of impacted soil, which correlates with the soil column above the elevated PID readings, then 10,160 ft³ or 376 cubic yards of impacted soil may be intercepted within the ROW in this area during road construction activities.

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 7, 2010.

- Historical aerials indicate that the property functioned as a gas station in 1966.
- Laboratory analyses of soil samples confirmed one DRO concentration of >10 mg/kg NC Action Level in soil boring SB-5.
- Laboratory analyses of soil samples confirmed two GRO concentration of >10 mg/kg NC Action Level: soil borings SB-1 and SB-5.
- The western edge of the area of soil contamination is unknown as it underlies a building.
- An estimated 375 yards of petroleum- impacted soil may be intercepted during excavation activities in this area.

6.0 **RECOMMENDATIONS**

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

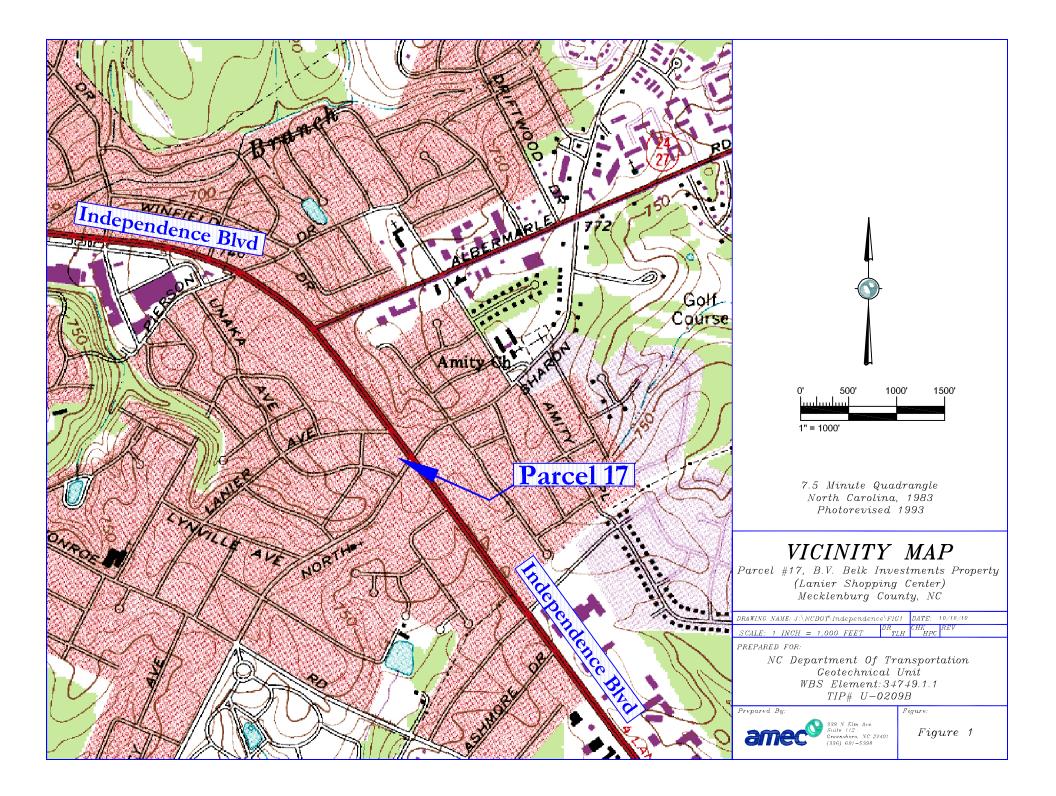
 Segregation during soil excavation with proper disposal of potentially petroleum-impacted soil during roadway improvement construction operations.

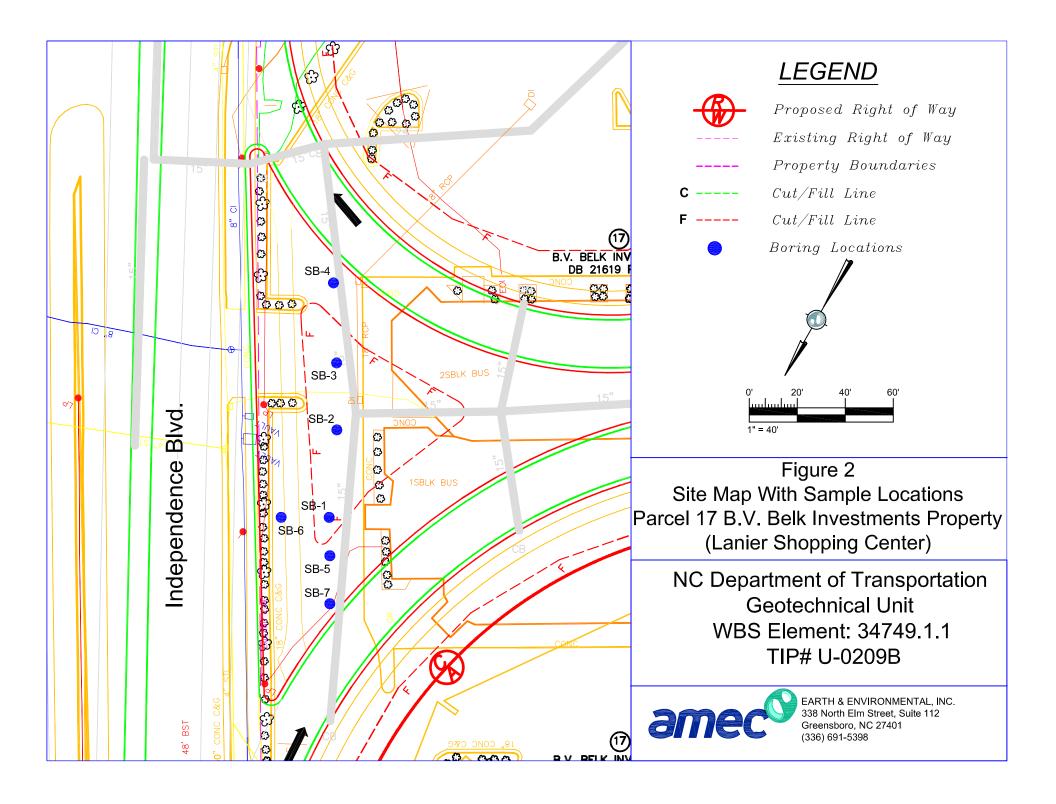
TABLES

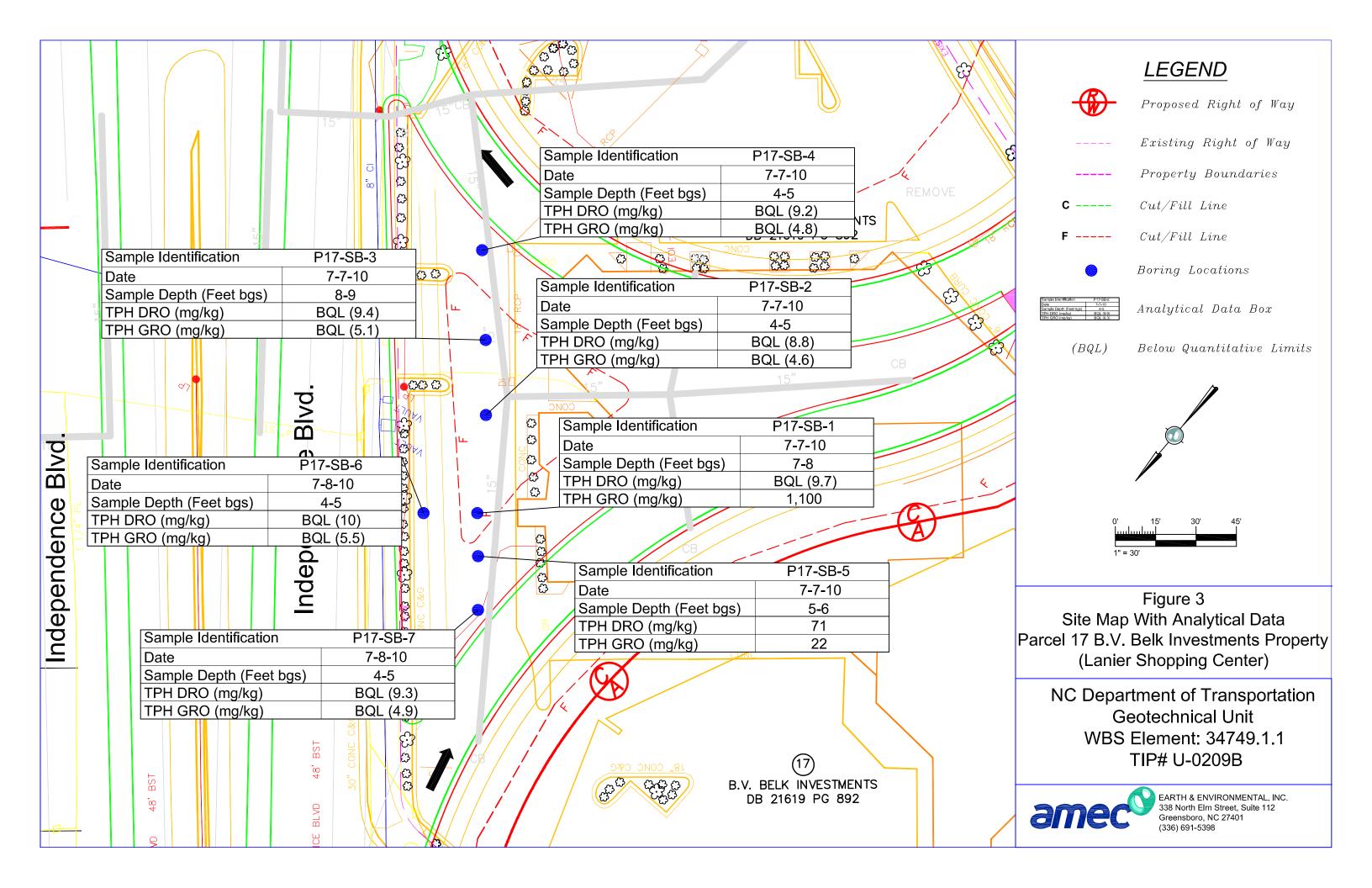
Table 1Soil Sampling Analytical Results, DRO-GROParcel 17, B.V.Belk Investments Property (Lanier Shopping Center)NC DOTCharlotte, North Carolina

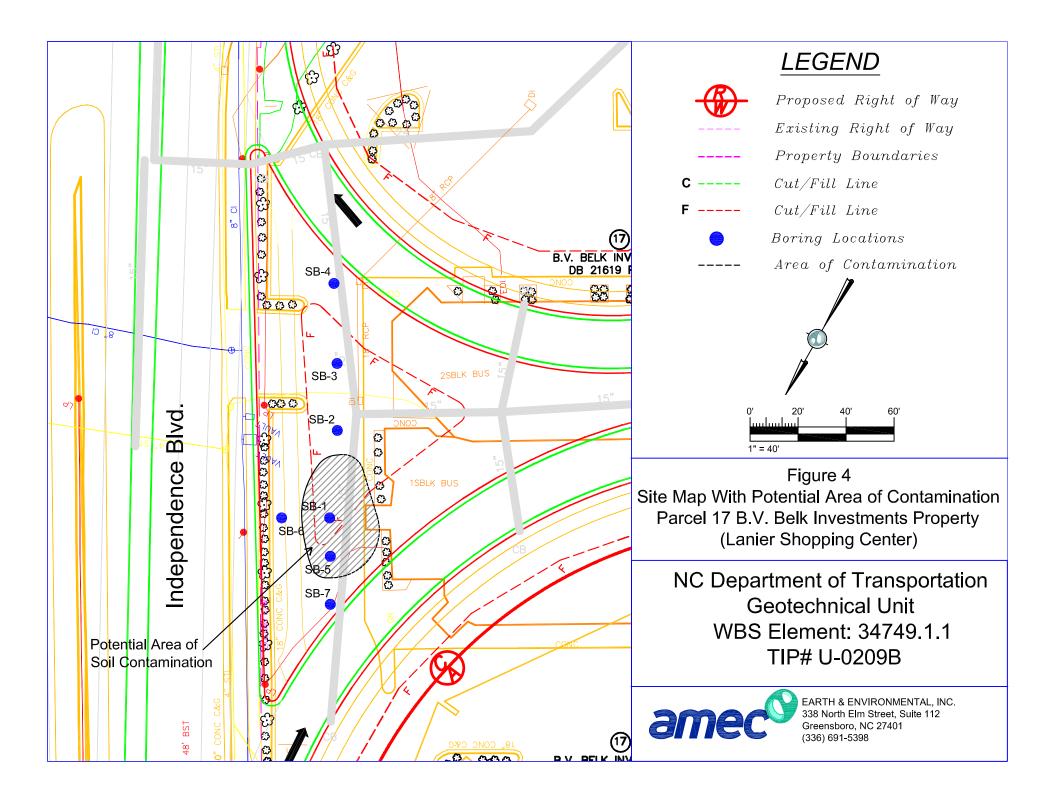
	SAMPLE	SAMPLE DEPTH	PID	EPA Meth	nod 8015B				
SAMPLE ID	DATE	(ft bgs)	READINGS (ppm)	DRO (mg/kg)	GRO (mg/kg)				
NC Action Levels				10	10				
P17-SB-1	7/7/2010	7 - 8	2355	<9.7	1,100				
P17-SB-2	7/7/2010	4 - 5	1364	<8.8	<4.6				
P17-SB-3	7/7/2010	8 - 9	32.4	<9.4	<5.1				
P17-SB-4	7/7/2010	4 - 5	167	<9.2	<4.8				
P17-SB-5	7/7/2010	5 - 6	369	71	22				
P17-SB-6	7/8/2010	4 - 5	0	<10	<5.5				
P17-SB-7	40367	4 - 5	37	<9.3	<4.9				
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









APPENDIX A

PHOTO LOG



Photo 1

Viewing east along US 74 from the north-western portion of the site. The area in front of the Canopy had the highest PID readings on site. Consequently two additional borings were added to the west and one boring was added to the north.

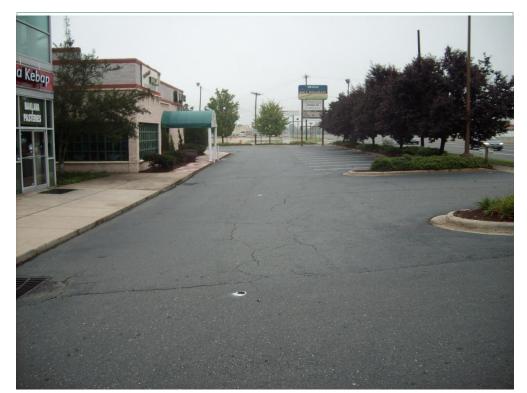


Photo 2

Viewing west from the north central portion of the site. White circles indicate abandoned boring locations. Borings were filled with bentonite and asphalt patch was added to cap hole.

amec

338 North Elm Street, Suite 112 Greensboro, North Carolina, 27401
 W.O.
 562110209

 PROCESSED
 TLH

 DATE
 July 2010

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Preliminary Site Assessment Parcel 17 B.V. Belk Investments Property (Lanier Shopping Center) Independence Blvd., Charlotte, NC

PHOTOGRAPHIC LOG

APPENDIX B

BORING LOGS

	AMEC Earth & Environmental, Inc. BORING LOG								
am	ec	BORING							
Boring/Well N	No.: P17-SB1		Site Name: Parcel 17						
Date: 7-7-10			Location: Charlotte, Mecklenburg Co., NC						
Job No.: 562	110209		Sample Method: Direct Push						
AMEC Rep: 7	Troy Holzsch	uh	Drilling Method: Direct Push						
Drilling Com	pany: A.E. Dr	rilling	Driller Name/Cert #: John Gorman - 3485						
Remarks:									
Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description						
0-0.5			Asphalt/Aggregate						
0.5-1.5	749		Orange, Well Sorted, Clayey Silt, Damp						
1.5-3.5	1364		Brown, Well Sorted, Clayey Silt, Damp						
3.5-6	1769		Orange, Well Sorted, Clayey Silt, Damp						
6-10	2355		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp						
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	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:						
Stout micrival.									

AMEC Earth & Environmental, Inc.									
am	ec	BORING							
	No.: P17-SB2		Site Name: Parcel 17						
Date: 7-7-10			Location: Charlotte, Mecklenburg Co., NC						
Job No.: 562	110209		Sample Method: Direct Push						
AMEC Rep:	Troy Holzsch	uh	Drilling Method: Direct Push						
	pany: A.E. Dr		Driller Name/Cert #: John Gorman - 3485						
Remarks:		-							
Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description						
0-0.5			Asphalt/Aggregate						
0.5-2	0		Orange, Well Sorted, Clayey Silt, Damp						
2-6.5	0		Orange/Yellow, Well Sorted, Clayey Silt, Damp						
6.5-7	0		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp						
			Refusal @ 7'						
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		WELL CONS	TRUCTION DETAILS (If Applicable)						
Well Type/Dian	neter:		Outer Casing Interval:						
Total Depth:			Outer Casing Diameter:						
Screen Interval	:		Bentonite Interval:						
Sand Interval:			Slot Size:						
Grout Interval:			Static Water Level:						
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	0	AMEC E	arth & Environmental, Inc.					
am	ec [©]		-					
		BORING						
Boring/Well N	No.: P17-SB3		Site Name: Parcel 17					
Date: 7-7-10	440000		Location: Charlotte, Mecklenburg Co., NC					
Job No.: 562			Sample Method: Direct Push					
AMEC Rep: 1 Drilling Comp			Drilling Method: Direct Push Driller Name/Cert #: John Gorman - 3485					
Remarks:	Dally. A.E. Di	ming	Driner Name/Cert #. John Gorman - 5465					
Remarks.								
	PID/OVA							
Depth	Reading	Blow Counts	Soil/Lithologic Description					
(ft BLS)	(ppm)	Bion counto						
0-0.5	(ppiii)		Asphalt/Aggregate					
0.5-2	0		Orange, Well Sorted, Clayey Silt, Damp					
2-4	0		Brown/Orange, Well Sorted, Clayey Silt, Damp					
4-6	2.4		Orange, Well Sorted, Clayey Silt, Damp					
6-10	32.4		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp					
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	WELL CONSTRUCTION DETAILS (If Applicable)							
Well Type/Diam	neter:		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									
am	ec	BORING								
Boring/Well N	No.: P17-SB4		Site Name: Parcel 17							
Date: 7-7-10			Location: Charlotte, Mecklenburg Co., NC							
Job No.: 562	110209		Sample Method: Direct Push							
AMEC Rep: ⁻	Troy Holzsch	uh	Drilling Method: Direct Push							
Drilling Com	pany: A.E. Dr	rilling	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	167		Orange, Well Sorted, Clayey Silt, Damp							
6-10	52.3		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp							
	WELL CONSTRUCTION DETAILS (If Applicable)									
Well Type/Diam	neter:		Outer Casing Interval:							
Total Depth:			Outer Casing Diameter:							
Screen Interval	:		Bentonite Interval:							
Sand Interval:			Slot Size:							
Grout Interval:			Static Water Level:							
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	AMEC Earth & Environmental, Inc. BORING LOG								
am	ec	BORING							
Boring/Well N			Site Name: Parcel 17						
Date: 7-7-10			Location: Charlotte, Mecklenburg Co., NC						
Job No.: 562	110209		Sample Method: Direct Push						
AMEC Rep: ¹	Troy Holzsch	uh	Drilling Method: Direct Push						
Drilling Com			Driller Name/Cert #: John Gorman - 3485						
Remarks:		1							
Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description						
0-0.5			Asphalt/Aggregate						
0.5-3	340		Orange, Well Sorted, Clayey Silt, Damp						
3-6	369		Tan, Medium Grain Sand, Damp						
6-6.5			Quartz Vein						
6.5-10	180		Brown, Well Sorted, Clayey Silt, Damp						
		WELL CONS	TRUCTION DETAILS (If Applicable)						
Well Type/Diam	neter:		Outer Casing Interval:						
Total Depth:			Outer Casing Interval. Outer Casing Diameter:						
Screen Interval			Bentonite Interval:						
Sand Interval:			Slot Size:						
Grout Interval:			Static Water Level:						

	AMEC Earth & Environmental, Inc.									
am	ec	BORING								
	No.: P17-SB6	i	Site Name: Parcel 17							
Date: 7-8-10			Location: Charlotte, Mecklenburg Co., NC							
Job No.: 562	110209		Sample Method: Direct Push							
AMEC Rep:	Troy Holzsch	uh	Drilling Method: Direct Push							
	pany: A.E. Dr		Driller Name/Cert #: John Gorman - 3485							
Remarks:	-									
Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description							
0-0.5			Asphalt/Aggregate							
0.5-2	0		Yellow/Orange, Well Sorted, Clayey Silt, Damp							
2-6	0		Orange, Well Sorted, Clayey Silt, Damp							
6-10	0		Yellow/Orange, Well Sorted, Marbled Clayey Silt, Damp							
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	WELL CONSTRUCTION DETAILS (If Applicable)									
Well Type/Dian	neter:		Outer Casing Interval:							
Total Depth:			Outer Casing Diameter:							
Screen Interval			Bentonite Interval:							
Sand Interval:			Slot Size:							
Grout Interval:			Static Water Level:							
Srout micrial.	Grout Interval: Static Water Level:									

		AMEC E	arth & Environmental, Inc.						
am	ec	BORING							
Boring/Well	No.: P17-SB7	,	Site Name: Parcel 17						
Date: 7-8-10			Location: Charlotte, Mecklenburg Co., NC						
Job No.: 562	110209		Sample Method: Direct Push						
AMEC Rep:	Troy Holzsch	uh	Drilling Method: Direct Push						
Drilling Com			Driller Name/Cert #: John Gorman - 3485						
Remarks:									
Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description						
0-0.5			Asphalt/Aggregate						
0.5-3	23.7		Orange, Well Sorted, Clayey Silt, Damp						
3-6	37.4		Orange/Yellow, Well Sorted, Marbled Clayey Silt, Damp						
6-10	14		Yellow, Well Sorted, Clayey Silt, Damp						
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	a a ta m	WELL CONS	TRUCTION DETAILS (If Applicable)						
Well Type/Dian	neter:		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 17, 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 areas of the study area as indicated on the NCDOT's preliminary plan sheets to support their environmental assessment of Parcel 17 (B.V. Belk Investments 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 study area.

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.

schnabel-eng.com

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 17 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 17 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 within the study area.

CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 17 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 17.

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

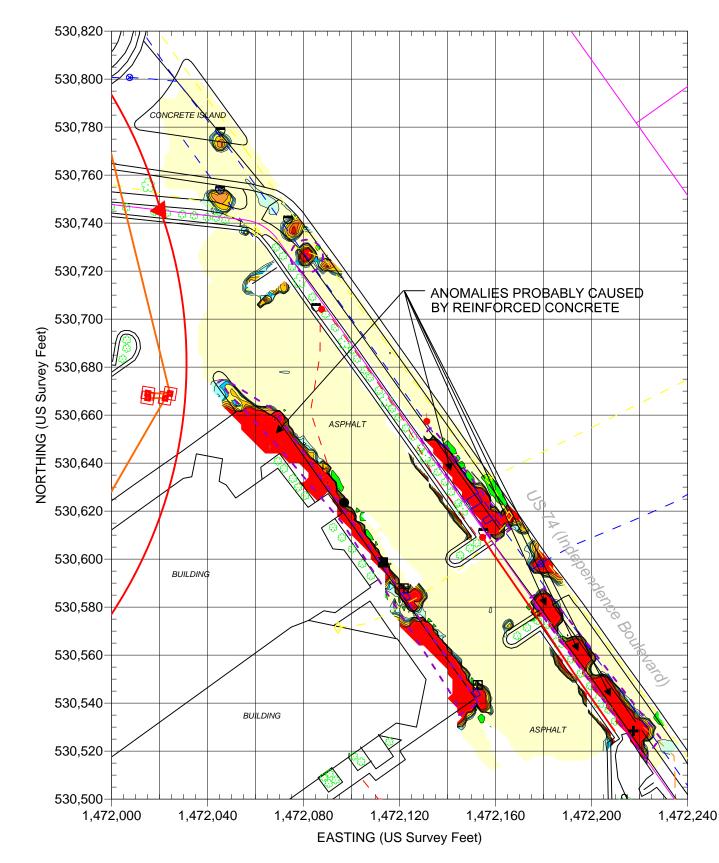
Jeremy S Strohmeyer, LG Project Manager

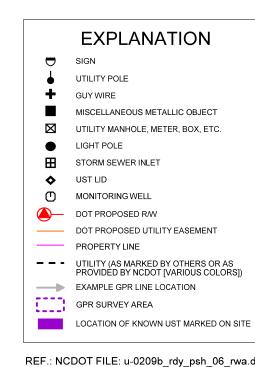
Edward D Billington, LG Senior Vice President

JS:JW:NB

Attachments: Figure 1

FILE: G:(2009 PROJECTS)/09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)/09210013.25 (U-0209B, MECKLENBURG CO.)/REPORT/PARCEL 17/SCHNABEL GEOPHYSICAL REPORT ON PARCEL 17.DOCX





-1500 50 -200 Scale in US Survey Feet 40

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.



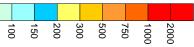
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UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])

REF.: NCDOT FILE: u-0209b_rdy_psh_06_rwa.dgn (FOR SOME SITE FEATURES)

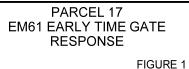
EM61 Early Time Gate Response (mV)



80

120

STATE PROJECT U-0209B NC DEPARTMENT OF TRANSPORTATION MECKLENBURG COUNTY, NC PROJECT NO. 09210013.25



APPENDIX D

LABORATORY ANALYTICAL RESULTS



Full-Service Analytical & Environmental Solutions

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

07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Lab Submittal Date: 07/07/2010 Prism Work Order: 0070210

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.

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President/Project Manager

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Reviewed By

Data Qualifiers Key Reference:

- A Surrogate is diluted out.
- Aa 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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Sample Receipt Summary

07/20/2010

Prism Work Order: 0070210

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P17-SB-1 (7-8)	0070210-01	Solid	07/07/10	07/07/10
P17-SB-2 (4-5)	0070210-02	Solid	07/07/10	07/07/10
P17-SB-3 (8-9)	0070210-03	Solid	07/07/10	07/07/10
P17-SB-4 (4-5)	0070210-04	Solid	07/07/10	07/07/10
P17-SB-5 (5-6)	0070210-05	Solid	07/07/10	07/07/10

Samples received in good condition at 5.4 degrees C unless otherwise noted.

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07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-1 (7-8) Prism Sample ID: 0070210-01 Prism Work Order: 0070210 Time Collected: 07/07/10 07:40 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.7	1.6	1	*8015C	7/16/10 4:02	JMV	P0G0263
			Surrogate			Recov	/ery	Control I	Limits
			o-Terphenyl			66	S %	49-124	
Gasoline Range Organics by GC/FI	D								
Gasoline Range Organics	1100	mg/kg dry	54	7.0	500	*8015C	7/19/10 17:23	HPE	P0G0310
			Surrogate			Recov	/ery	Control I	Limits
			a,a,a-Trifluo	rotoluene		0	%	55-129	А
General Chemistry Parameters									
% Solids	71.8	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226



07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-2 (4-5) Prism Sample ID: 0070210-02 Prism Work Order: 0070210 Time Collected: 07/07/10 08:10 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	7/16/10 18:25	JMV	P0G0290
			Surrogate			Recov	/ery	Control	Limits
			o-Terphenyl			81	1 %	49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.60	50	*8015C	7/16/10 21:59	HPE	P0G0310
			Surrogate			Recov	/ery	Control	Limits
			a,a,a-Trifluo	rotoluene		88	3 %	55-129	
General Chemistry Parameters									
% Solids	79.5	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226



07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-3 (8-9) Prism Sample ID: 0070210-03 Prism Work Order: 0070210 Time Collected: 07/07/10 08:20 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.4	1.5	1	*8015C	7/17/10 14:08	B JMV	P0G0290
			Surrogate			Recov	very	Control	Limits
			o-Terphenyl			88	3 %	49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.1	0.66	50	*8015C	7/16/10 22:29) HPE	P0G0310
			Surrogate			Recov	very	Control	Limits
			a,a,a-Trifluoi	rotoluene		11	1 %	55-129	
General Chemistry Parameters									
% Solids	74.3	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226



07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-4 (4-5) Prism Sample ID: 0070210-04 Prism Work Order: 0070210 Time Collected: 07/07/10 08:35 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	7/17/10 0:20	JMV	P0G0290
			Surrogate			Recov	/ery	Control	Limits
			o-Terphenyl			80)%	49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	*8015C	7/16/10 23:00) HPE	P0G0310
			Surrogate			Recov	/ery	Control	Limits
			a,a,a-Trifluoi	rotoluene		10:	3 %	55-129	
General Chemistry Parameters									
% Solids	76.0	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226



07/20/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-5 (5-6) Prism Sample ID: 0070210-05 Prism Work Order: 0070210 Time Collected: 07/07/10 08:50 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	71	mg/kg dry	9.4	1.5	1	*8015C	7/17/10 14:44	JMV	P0G0290
			Surrogate			Reco	very	Control	Limits
			o-Terphenyl			11	6 %	49-124	
Gasoline Range Organics by GC/FII	כ								
Gasoline Range Organics	22	mg/kg dry	5.3	0.69	50	*8015C	7/16/10 23:31	HPE	P0G0310
			Surrogate			Reco	very	Control	Limits
			a,a,a-Trifluo	rotoluene		10	1%	55-129	
General Chemistry Parameters									
% Solids	74.0	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1

Prism Work Order: 0070210 Time Submitted: 7/7/10 12:55:00PM

Gasoline Range Organics by GC/FID - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0310 - 5035										
Blank (P0G0310-BLK1)			F	Prepared	& Analyze	d: 07/16/1	0			
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.60		mg/kg wet	5.00		92	55-129			
LCS (P0G0310-BS1)			F	Prepared	& Analyze	d: 07/16/1	0			
Gasoline Range Organics	45.6	5.0	mg/kg wet	50.0		91	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.25		mg/kg wet	5.00		105	55-129			
LCS Dup (P0G0310-BSD1)			F	Prepared	& Analyze	d: 07/16/1	0			
Gasoline Range Organics	46.2	5.0	mg/kg wet	50.0		92	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	5.30		mg/kg wet	5.00		106	55-129			



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1 Prism Work Order: 0070210 Time Submitted: 7/7/10 12:55:00PM

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 P0G0263 - 3545A										
Blank (P0G0263-BLK1)				Prepared	: 07/14/10	Analyzed	: 07/15/10			
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.50		mg/kg wet	1.60		94	49-124			
LCS (P0G0263-BS1)				Prepared	: 07/14/10	Analyzed	: 07/15/10			
Diesel Range Organics	64.4	7.0	mg/kg wet	79.8		81	55-109			
Surrogate: o-Terphenyl	2.02		mg/kg wet	1.60		127	49-124			Aa
LCS Dup (P0G0263-BSD1)				Prepared	: 07/14/10	Analyzed	: 07/16/10			
Diesel Range Organics	59.5	7.0	mg/kg wet	79.9		74	55-109	8	200	
Surrogate: o-Terphenyl	1.81		mg/kg wet	1.60		113	49-124			
Batch P0G0290 - 3545A										
Blank (P0G0290-BLK1)				Prepared	: 07/15/10	Analyzed	: 07/16/10			
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.34		mg/kg wet	1.60		84	49-124			
LCS (P0G0290-BS1)				Prepared	: 07/15/10	Analyzed	: 07/16/10			
Diesel Range Organics	63.9	7.0	mg/kg wet	80.0		80	55-109			
Surrogate: o-Terphenyl	1.93		mg/kg wet	1.60		121	49-124			
LCS Dup (P0G0290-BSD1)				Prepared	: 07/15/10	Analyzed	: 07/16/10			
Diesel Range Organics	69.9	7.0	mg/kg wet	80.0		87	55-109	9	200	
Surrogate: o-Terphenyl	2.06		mg/kg wet	1.60		129	49-124			Aa
Matrix Spike (P0G0290-MS1)	So	ource: 007021	0-02	Prepared	: 07/15/10	Analyzed	: 07/16/10			
Diesel Range Organics	78.8	8.8	mg/kg dry	100	BRL	78	50-117			
Surrogate: o-Terphenyl	2.37		mg/kg dry	2.01		118	49-124			



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1 Prism Work Order: 0070210 Time Submitted: 7/7/10 12:55:00PM

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 P0G0290 - 3545A										
Matrix Spike Dup (P0G0290-MSD1)	Sourc	e: 007021	0-02	Prepared	07/15/10	Analyzed	: 07/16/10			
Diesel Range Organics	74.7	8.8	mg/kg dry	100	BRL	75	50-117	5	24	
Surrogate: o-Terphenyl	2.16		mg/kg dry	2.01		108	49-124			



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1 Prism Work Order: 0070210 Time Submitted: 7/7/10 12:55:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0226 - NO PREP										
Duplicate (P0G0226-DUP2)	Sour	ce: 0070210	-05	Prepared	& Analyze	d: 07/13/1	0			
% Solids	72.6	0.100	% by Weigh	t	74.0			2	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date	
0070210-01	P0G0263	25.09 g	1 mL	07/14/10	
0070210-02	P0G0290	25.01 g	1 mL	07/15/10	
0070210-03	P0G0290	25.12 g	1 mL	07/15/10	
0070210-04	P0G0290	25 g	1 mL	07/15/10	
0070210-05	P0G0290	25.12 g	1 mL	07/15/10	
Prep Method: 5035					
Lab Number	Batch	Initial	Final	Date	
0070210-01	P0G0310	6.46 g	5 mL	07/16/10	
0070210-02	P0G0310	6.85 g	5 mL	07/16/10	
0070210-03	P0G0310	6.59 g	5 mL	07/16/10	
0070210-04	P0G0310	6.92 g	5 mL	07/16/10	
0070210-05	P0G0310	6.32 g	5 mL	07/16/10	
NO PREP					
Lab Number	Batch	Initial	Final	Date	
0070210-01	P0G0226	30 g	30 mL	07/13/10	
0070210-02	P0G0226	30 g	30 mL	07/13/10	
0070210-03	P0G0226	30 g	30 mL	07/13/10	
0070210-04	P0G0226	30 g	30 mL	07/13/10	
0070210-05	P0G0226	30 g	30 mL	07/13/10	

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Drganics Analysis (Ze	ature) U Received By: (Signature) Date Tature) Received For Prism Laboratories By Date The coolers Should BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. Cop Group No.	d with the analyses as requested above. An hanges after analyses have been initialized.	Sampled By (Print Name) Tray & Holzschul Attiliation AMEL					1 291	Vaa, U Zver, N	SAMPLE CONTAINER PRESERVA-	provisions and/or QC Requirements Invoice To: The key line of the second seco	CHAIN OF CUSTODY RECORD PAGE OF QUOTE # TO ENSURE PROPER BILLING: Project Name: Independence Diversion (Diversion (No) Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No) *Please ATTACH any project specific reporting (QC LEVEL I II III IV)
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NC Certification No. 402 SC Certification No. 99012 NC Drinking Water Cert No. 37735

07/21/2010

AMEC Earth & Env. Inc.(DOT Gree) Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Lab Submittal Date: 07/09/2010 Prism Work Order: 0070229

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.

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President/Project Manager

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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.

Sample Receipt Summary



07/21/2010

Prism Work Order: 0070229

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P17-SB-6 (4-5)	0070229-01	Solid	07/08/10	07/09/10
P17-SB-7 (4-5)	0070229-02	Solid	07/08/10	07/09/10

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



07/21/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-6 (4-5) Prism Sample ID: 0070229-01 Prism Work Order: 0070229 Time Collected: 07/08/10 09:00 Time Submitted: 07/09/10 11:13

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.6	1	*8015C	7/16/10 20:47	′ JMV	P0G0290
			Surrogate			Recov	/ery	Control	Limits
			o-Terphenyl			76	5 %	49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.5	0.72	50	*8015C	7/17/10 2:06	HPE	P0G0310
			Surrogate			Recov	/ery	Control	Limits
			a,a,a-Trifluor	otoluene		11	1 %	55-129	
General Chemistry Parameters									
% Solids	69.5	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	JAB	P0G0257



07/21/2010

AMEC Earth & Env. Inc.(DOT Gree) Attn: Helen Corley 338 North Elm St. Suite 112 Greensboro, NC 27401 Project: NCDOT: Independence Blvd. Parcel 17 Project No.: WBS #34749.1.1 Sample Matrix: Solid Client Sample ID: P17-SB-7 (4-5) Prism Sample ID: 0070229-02 Prism Work Order: 0070229 Time Collected: 07/08/10 09:20 Time Submitted: 07/09/10 11:13

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.3	1.5	1	*8015C	7/17/10 10:3	5 JMV	P0G0290
			Surrogate			Recov	/ery	Control	Limits
			o-Terphenyl			95	5 %	49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.9	0.63	50	*8015C	7/17/10 2:36	HPE	P0G0310
			Surrogate			Recov	/ery	Control	Limits
			a,a,a-Trifluo	rotoluene		97	7 %	55-129	
General Chemistry Parameters									
% Solids	74.8	% by Weight	0.100	0.100	1	*SM2540 G	7/14/10 13:45	5 JAB	P0G0257



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1

Prism Work Order: 0070229 Time Submitted: 7/9/10 11:13:00AM

Gasoline Range Organics by GC/FID - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0310 - 5035										
Blank (P0G0310-BLK1)			F	Prepared	& Analyze	d: 07/16/1	0			
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.60		mg/kg wet	5.00		92	55-129			
LCS (P0G0310-BS1)	Prepared & Analyzed: 07/16/10									
Gasoline Range Organics	45.6	5.0	mg/kg wet	50.0		91	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.25		mg/kg wet	5.00		105	55-129			
LCS Dup (P0G0310-BSD1)	Prepared & Analyzed: 07/16/10									
Gasoline Range Organics	46.2	5.0	mg/kg wet	50.0		92	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	5.30		mg/kg wet	5.00		106	55-129			



Project: NCDOT: Independence Blvd. Parcel 17 Project No: WBS #34749.1.1 Prism Work Order: 0070229 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 P0G0290 - 3545A										
Blank (P0G0290-BLK1)			F	Prepared	: 07/15/10	Analyzed	1: 07/16/10			
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.34		mg/kg wet	1.60		84	49-124			
LCS (P0G0290-BS1)			F	Prepared	: 07/15/10	Analyzed	1: 07/16/10			
Diesel Range Organics	63.9	7.0	mg/kg wet	80.0		80	55-109			
Surrogate: o-Terphenyl	1.93		mg/kg wet	1.60		121	49-124			
LCS Dup (P0G0290-BSD1)	Prepared: 07/15/10 Analyzed: 07/16/10									
Diesel Range Organics	69.9	7.0	mg/kg wet	80.0		87	55-109	9	200	
Surrogate: o-Terphenyl	2.06		mg/kg wet	1.60		129	49-124			A

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date	
0070229-01	P0G0290	25.13 g	1 mL	07/15/10	
0070229-02	P0G0290	25.05 g	1 mL	07/15/10	
Prep Method: 5035					
Lab Number	Batch	Initial	Final	Date	
0070229-01	P0G0310	6.5 g	5 mL	07/16/10	
0070229-02	P0G0310	6.89 g	5 mL	07/16/10	
NO PREP					
Lab Number	Batch	Initial	Final	Date	
0070229-01	P0G0257	30 g	30 mL	07/14/10	
0070229-02	P0G0257	30 g	30 mL	07/14/10	

Submitted in writing to the Prism Project Manager. Inere will be charge Received Experiment is the prism Project Manager. Inere will be charge Relinquished By: (Signature) Received Experiment is the prism Project Manager. Inere will be charge Received Experiment is the prism Project Manager. Inere will be charge Relinquished By: (Signature) Received Figure Received Figure Relinquished By: (Signature) Received Figure Received Figure Relinquished By: (Signature) Received Figure Received Figure Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTG Received Figure Method of Shipment: NOTE: ALL SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL R Received Figure NPDES: UST: GROUNDWATER: DRINKING WATER: NPDES: UST: NC SC NC SC SC SC NC SC SC SC SC SC SC SC SC SC <t< th=""><th>Sampler's Signature The Line Sampled Sampler Upon relinquishing, this Chain of Custody is your authorization for</th><th>P17-58-6/43 7-8-10 900 50:1 P17-58-7(4-5) 7-8-10 920 50:1</th><th>CLIENT DATE COLLECTED (SOIL, SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR HOURS SLUDGE)</th><th>$\frac{x (Yes) (No):}{s hele \Lambda (x B)}$</th><th>Full-Service Analytical & Environmental Solutions LABORATORIES INC. 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-5864 • Fax: 704/525-0409 Client Company Name: AMEC E+C Report To/Contact Name: Helen Corley Reporting Address: 338 • Elm St Grage visiborin March 274110</th></t<>	Sampler's Signature The Line Sampled Sampler Upon relinquishing, this Chain of Custody is your authorization for	P17-58-6/43 7-8-10 900 50:1 P17-58-7(4-5) 7-8-10 920 50:1	CLIENT DATE COLLECTED (SOIL, SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR HOURS SLUDGE)	$\frac{x (Yes) (No):}{s hele \Lambda (x B)}$	Full-Service Analytical & Environmental Solutions LABORATORIES INC. 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-5864 • Fax: 704/525-0409 Client Company Name: AMEC E+C Report To/Contact Name: Helen Corley Reporting Address: 338 • Elm St Grage visiborin March 274110
Be contracted by: (Signature) Date Date Military/Hours Received By: (Signature) Date Date Military/Hours Received By: (Signature) Date Date Military/Hours Received By: (Signature) Date Date Date Military/Hours Received For Prism Laboratories By: Date Date Date 1):13 MITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. COC Group No. OC TO 3.03 Date MATER: SOLID WASTE: RCRA: CERCLA COC J 0.3.03 WATER: INC II SC INC II SC INC II SC INC II SC SC INC II SC INC II SC INC II SC INC II SC SS P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)	Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be	Nov A Tales X X X X X X	SEE BELOW NO. SIZE TIVES	1749.1	CHAIN OF CUSTODY RECORD
Additional Comments:	AMEL PRESS DOWN FIRMLY - 3 COPIES PRISM USE ONLY	0	ANALYSES REQUESTED REMARKS LAB ID NO.	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	Samples INTACT upon annual? PRoceived on WET ICE? Temp Y.J. PROPER PRESERVATIVES indicated? Y.J. CUSTODY SEALS INTACT? Y.J. VOLATILES rec dW/OUT HEADSPACE?? Y.J. PROPER CONTAINERS used? Y.J.

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