PRELIMINARY SITE ASSESSMENT PARCEL 24B, JOHN MACCLEMENTS ET AL PROPERTY 301 NORTH SMITH STREET CHARLOTTE, NORTH CAROLINA STATE PROJECT NO. 9.9080100 (P-3800)

Prepared for: NCDOT Geotechnical Unit PO Box 25201 Raleigh, North Carolina 27611-5201

Prepared by:
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TABLE OF CONTENTS

1 0	INTRODUCTION	1
2.0	BACKGROUND	1
2.0	SITE DESCRIPTION	1
4.0	FIELD ACTIVITIES	2
5.0	LABORATORY RESULTS	3
6.0	DISCUSSION	4
7.0	CONCLUSIONS	4
	2	

TABLE

TABLE 1 – SUMMARY OF FIELD SCREENING RESULTS FOR SOIL

FIGURES

FIGURE 1 – SITE LOCATION MAP

FIGURE 2 – SITE MAP

FIGURE 3 – SOIL BORING LOCATIONS

APPENDICES

APPENDIX A -GEOPHYSICAL SURVEY RESULTS

APPENDIX B - PHOTOGRAPHS

APPENDIX C – BORING LOGS

APPENDIX D – LABORATORY ANALYTICAL REPORTS

1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to construct a Multi-Modal Station in Charlotte, Mecklenburg County, North Carolina. The planned construction will require the NCDOT to acquire additional property. On December 10, 2002, Solutions Industrial & Environmental Services, Inc. (Solutions-IES) submitted proposal NC02055P to the NCDOT to conduct a preliminary site assessment (PSA) of Parcel 24b, sited within the planned construction area at 301 North Smith Street (Figure 1). This report summarizes the results of field and laboratory activities conducted during the PSA of the referenced property.

2.0 BACKGROUND

According to information provided by the NCDOT, the property is owned by John E. MacClements and comprises 1.456 acres. A 25,000 square foot building was reportedly built in 1958 and is currently occupied by Carolina Rim & Wheel.

In October of 2001, Solutions-IES performed a PSA for the NCDOT on the adjacent railroad right-of-way between West 1st and West 9th Streets ¹. Because the Phase I Environmental Assessment Report ² of the area described most properties as presenting some environmental risk, Solutions-IES opened two borings (SB-20 and SB-21) to a depth of 8 feet below ground surface (bgs) in the vicinity of Parcel 24b. Boring SB-20 was located approximately 82' southwest of the west corner of the Carolina Rim & Wheel building and SB-21 was located approximately 22' north of the north corner of the building. The soil sample collected from SB-20 at a depth of 6-8' bgs contained 26 mg/kg of diesel range organics. No volatile organics or petroleum hydrocarbons were reported in the sample collected from SB-21.

Preliminary Site Assessment, Approximately 4.29 Acres Along Norfolk and Southern Railroad, Mecklenburg County, North Carolina, State Project No. 9.9081000 (P-3800). Consultant's report prepared by Solutions-IES for NCDOT Geotechnical Unit. Dated December 6, 2001

²Limited Phase I Environmental Site Assessment Report. State Project No. 9.9080178 (AMTRACK) Proposed AMTRACK Rail Station. Downtown Charlotte, North Carolina. Consultant's report prepared by Arcadis Geraghty & Miller. Dated September 28, 2000.

3.0 SITE DESCRIPTION

The John MacClements et al property (Parcel 24b) is located on the north side of North Smith Street between Hearn Place and 7th Street. Railroad tracks abut the property to the north. A large building/warehouse (occupied by Carolina Rim & Wheel) is located on the property surrounded by an asphalt parking lot and grass. According to the highway plan sheets, NCDOT will acquire the entire property as a right-of-way for the Multi-Modal Station. Figure 2 shows the location of Parcel 24b (site).

4.0 FIELD ACTIVITIES

In advance of the Solutions-IES field assessment, Schnabel Engineering Associates, Inc. (Schnabel) was retained by NCDOT to perform a geophysical evaluation of the property. A copy of the geophysical survey results obtained January 8, 2003 is provided in Appendix A. The preliminary report submitted by Schnabel identified anomalies at three grid locations X=120' Y=270', X=237 Y=96, and X=225 Y=167 that suggested the possibility of underground storage tanks (USTs). Several other smaller anomalies were noted, but all were believed to be associated with buried utilities, miscellaneous metal, or debris.

Priority Locating Service of Charlotte, North Carolina, to survey the site for underground utilities.

Priority Locating surveyed the areas where anomalies were observed with a Schonstedt metal detector, but did not pick up any significant readings that would confirm the presence of USTs in any of the three locations identified by Schnabel.

On January 9-10, 2002, Solutions-IES advanced ten borings to evaluate the presence of petroleum-impacted soil across the entire parcel. Figure 3 shows the approximate boring locations. All ten of the borings were advanced with a Geoprobe®.

The Geoprobe® borings were advanced to a maximum depth of 12 feet bgs. Four of the borings were terminated at 7-8' bgs due to refusal. Four borings (SB-1 through SB-4) were advanced in the vicinity of the anomaly located at grid location X=120 Y=270 (Appendix B, Photograph 1). Three borings (SB-5 through SB-7) were advanced in the vicinity of the anomaly located at grid location X=225 Y=167 (Appendix B, Photograph 2). Two borings (SB-8 and SB-9) were advanced near the anomaly located at grid locations X=237 Y=96 (Appendix B, Photograph 3) and one boring (SB-10) was advanced on the

west corner of the property. SB-10 was located in the vicinity of boring SB-20, which was sampled during the PSA that was conducted on the railroad right-of-way in October of 2001 (Appendix B, Photograph 4). No saturated soils were encountered in any of the borings.

A Geoprobe® Macro-Core Sampler® was used to collect continuous soil cores at each boring location. Upon removal from the ground, the cores were examined for soil staining and olfactory evidence of petroleum contamination. Soil from each 4-foot section was cut into 2-foot lengths. Soil from each interval was further split into two identical aliquots. Each aliquot was placed in a separate resealable plastic bag. One bag was placed on ice for possible laboratory analysis, while the other bag was sealed and placed at ambient temperature for field screening with an organic vapor analyzer (OVA). Soil recovered from the hand auger boring was also placed in resealable plastic bags. After a period of approximately 20 minutes to allow accumulation of volatile organic compounds (VOCs) in the headspace of the bags, each sealed bag left at ambient temperature was scanned with the OVA. A background reading was taken with the OVA prior to measuring VOC concentrations in the bags. The VOC readings were entered on the boring record along with the soil description and any indications of petroleum staining or odor. Copies of the boring logs are provided in Appendix C, and the OVA readings are summarized in Table 1.

Similar subsurface conditions were encountered across the site. There is a 0.5 to 1.5-foot layer of topsoil that rests on a 2 to 5-foot layer of reddish orange silty clay that is underlain by a 2 to 6-foot layer of reddish orange sandy clay. In a few of the borings, a 0.5 to 2-foot layer of gray, dark black or dark brown sandy clay was encountered around 9 to 10 feet bgs. Conditions encountered at each boring location are shown on the boring logs included in Appendix C. No hydrocarbon odors or visual evidence of petroleum staining were noted in the recovered samples collected from any of the borings. OVA readings ranged from 0 to 4.9 parts per million (ppm).

Five samples were selected for laboratory analysis to confirm field observations suggesting that no petroleum hydrocarbons were present in the soil. The samples were placed in laboratory-supplied jars and stored on ice pending shipment to Prism Laboratories, Inc. in Charlotte, NC under chain-of-custody procedures. The samples were submitted for analysis of gasoline and diesel range total petroleum hydrocarbons (TPH) by EPA Modified Method 8015 with preparation methods 5030 and 3550, respectively.

5.0 LABORATORY RESULTS

The analytical laboratory report for the soil samples is provided in Appendix D. TPH gasoline range organics (GRO) and diesel range organics (DRO) were not detected in any of the five samples submitted to the laboratory.

6.0 DISCUSSION

Ten borings were opened within the property boundaries of Parcel 24b. Nine of the borings were opened in areas of the site identified by geophysical methods as possibly covering large metallic objects such as USTs. Boring B-10 was advanced near an area where diesel contamination was identified in a previous investigation completed in 2001. No petroleum hydrocarbon odors or elevated OVA readings were noted in any borings at depths ranging from 7 feet to 12 feet bgs. Gasoline range organics and diesel range organics were not identified in any of the five soil samples submitted for laboratory analysis. Saturated soil was not encountered in any of the borings. As such, groundwater was not evaluated as part of the PSA.

7.0 CONCLUSIONS

This PSA was performed on behalf of the NCDOT for the MacClements property parcel 24b located at 301 North Smith Street in Charlotte, Mecklenburg County, NC. Based upon our field observations and laboratory results, no petroleum-impacted soils were encountered within the property boundaries within 7 to 12 feet of the ground surface. The reported detection of 26 mg/kg of diesel range organics in soil from SB-20, opened during a previous assessment for the railroad station was not confirmed in nearby boring B-10. This suggests that any hydrocarbons present in SB-20 may be very localized.

TABLE

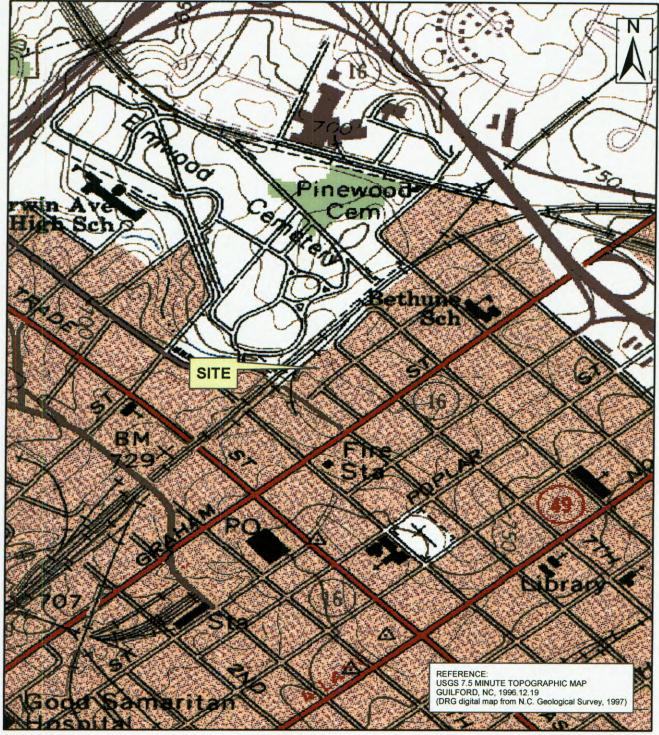
TABLE 1
SUMMARY OF FIELD SCREENING RESULTS FOR SOIL
Parcel 24b – John MacClements et al Property
301 North Smith Street, Charlotte, North Carolina
NCDOT Project No. 9.9080100 (P-3800)
January 9-10, 2003

, A										
Sample Depth Below Ground	SB-1	SR-2	CR.3	CB.	2 00	S do	400	9	,	
Surface				100	c-dc	9P-0	SB-/	SP-8	SB-9	SB-10
					OVA Reading (ppm)	ling (ppm	_			
0 - 0.6 meters (0 - 2 feet)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	
						2		0.0	0.0	2:
0.6 - 1.2 meters (2 - 4 feet)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00	
							3	2.	7.0	0.0
1.2 - 1.8 meters (4 - 6 feet0	0.0	0.0	0.0	0.0	0.0	0.0	00	0.0		でを
					Spirit have		2.5	0.0	4.0	4.7 ×
1.8 - 2.4 meters (6 - 8 feet)	₹ 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0	0 0	
				おします。					2	7.0
2.4 - 3.0 meters (8 - 10 feet)	0.0	0.0	0.0	1.9	NC	Z	Z	0.0	0	7
•								2.	0.0)
3.0 - 3.7 meters (10 - 12 feet)	0.0	0.0	0.0	0.0	NC	NC	NC	0.0	0.0	C.N.
								2	?.	= ک

Notes:

- 1. OVA readings were obtained with a Foxboro Century Model 108 Organic Vapor Analyzer.
 - 2. Background OVA reading was 1.0 ppm (OVA readings adjusted).
- 3. Samples denoted by shaded cells were submitted for laboratory analysis.
 - 4. NC Sample not collected.

FIGURES



1:10,000

SITE LOCATION MAP

NC DOT Project #9.9080100 (P-3800)
John MacClements Property (Parcel #24b)
301 North Smith Street
Charlotte, North Carolina



3722 BENSON DRIVE, RALEIGH, NC 27609 PHONE (919) 873-1060, FAX (919) 873-1074

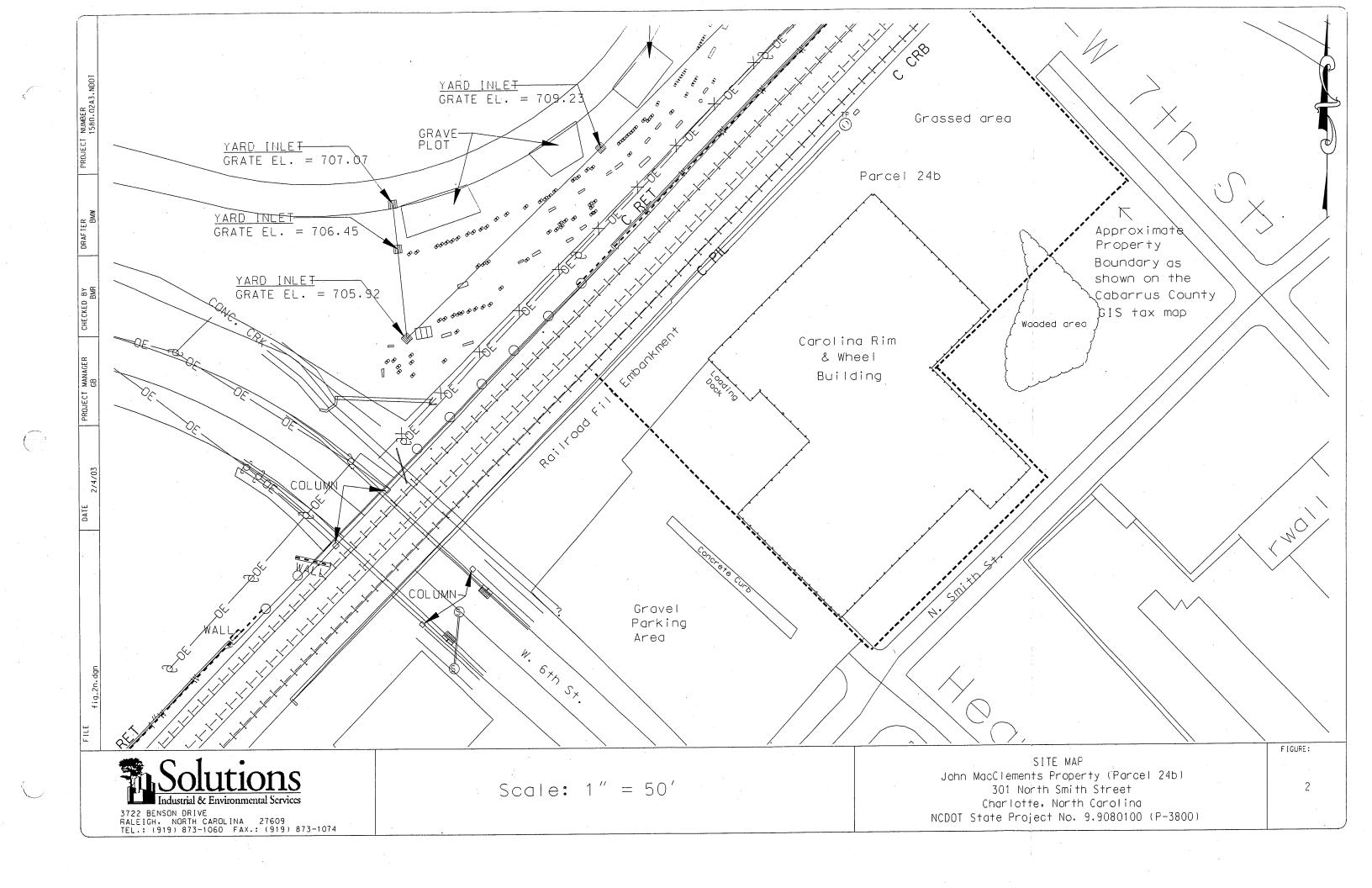
FILE:
CREATED BY:
CHECKED BY:
DIRECTORY:

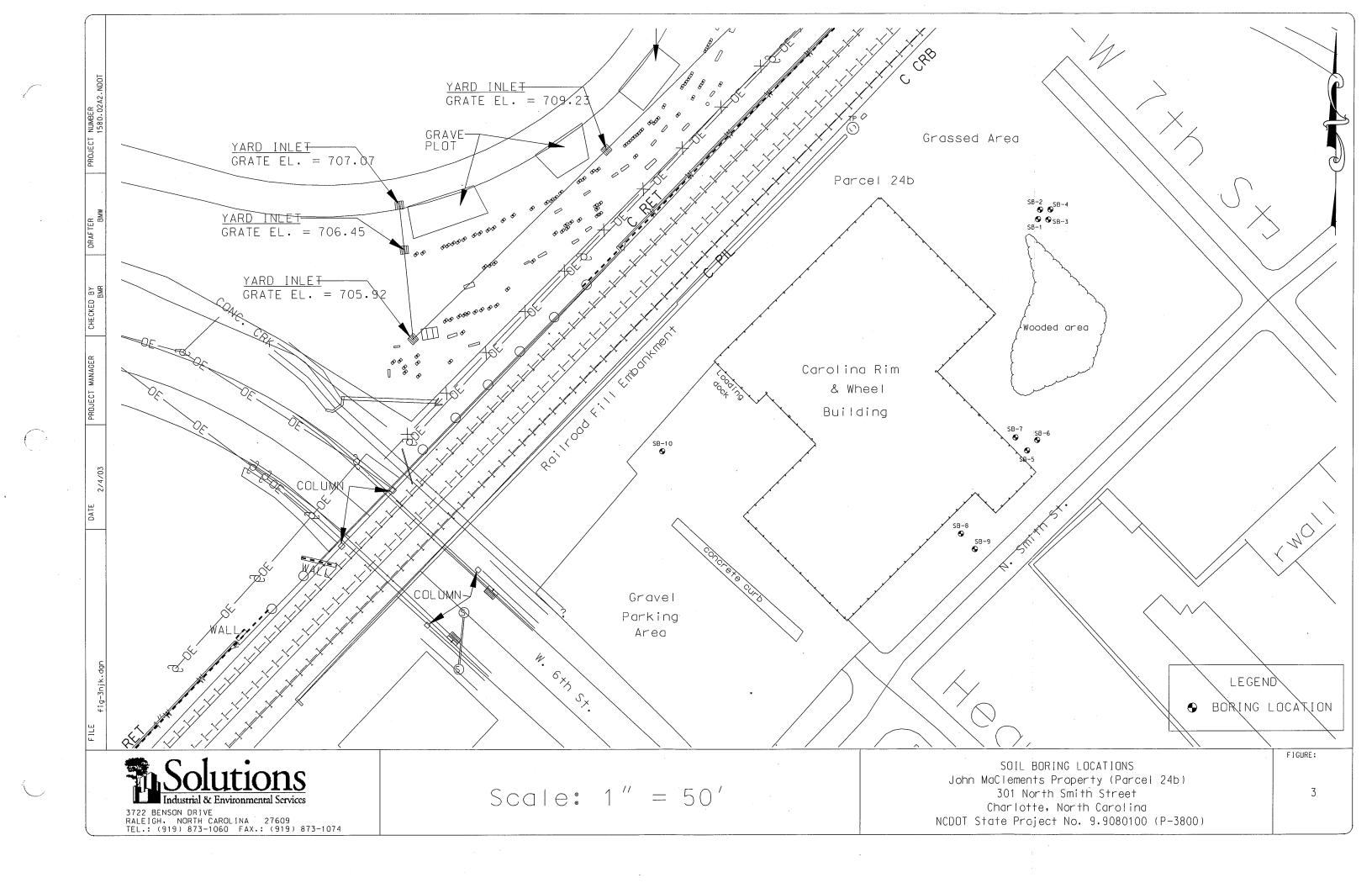
topo24b.mxd
B.Wolfe

PROJECT NO.: 1580.02A2.NDOT
DATE: February-03
GIS Soft., Vers. ESRI ArcView 8.1

FIGURE

1





APPENDIX A GEOPHYSICAL SURVEY RESULTS

North Carolina Department of Transportation

GEOPHYSICAL SURVEYS FOR RIGHT-OF-WAY PROPERTIES

State Project 9.9080100 (P-3800), Mecklenburg County John Mac Clements et al Property (Parcel 24B) Charlotte, North Carolina



January 14, 2003 Project Number 01211005.01-15



405-A Parkway Drive, Greensboro, North Carolina 27401-1693 Phone (336) 274-9456; Fax (336) 274-9486

North Carolina Department of Transportation GEOPHYSICAL SURVEYS FOR RIGHT-OF-WAY PROPERTIES State Project 9.9080100 (P-3800), Mecklenburg County

TABLE OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 FIELD METHODOLOGY
 - 2.1 Survey Area
 - 2.2 Location Control
 - 2.3 Data Collection
- 3.0 DISCUSSION OF RESULTS
- 4.0 CONCLUSIONS
- 5.0 LIMITATIONS

FIGURES

Figure 1	EM-61 Survey – Early Time Gate Response
Figure 2	EM-61 Survey – Differential Response
Figure 3	GPR Images
Figure 4	Site Photos

1.0 INTRODUCTION

Schnabel Engineering Associates, Inc. provided geophysical surveys on December 12, 2002 and January 8, 2003, to locate possible underground storage tanks (UST's) on the John Mac Clements et al property (Parcel 24B) located at 301 North Smith Street in Charlotte, North Carolina. Hearn Place and North Smith Street lie along the southern and eastern perimeters of the property, respectively. A concrete embankment wall, 7th Street, and Parcel 12 border the western, northern and northeastern perimeters of the property, respectively. Railroad tracks lie on the other side of the embankment wall. The 1.46-acre property is currently used by Carolina Rim and Wheel, an automotive parts distributor that operates out of an approximate 25,000 square foot warehouse located in the southern portion of the property. Photos of the site are shown in Figure 4.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM-61 instrument. Ground penetrating radar (GPR) surveys were performed across selected EM-61 anomalies and steel-reinforced concrete pavement using a SIR-2000 GPR system equipped with a 400 MHz antenna.

2.0 FIELD METHODOLOGY

2.1 Survey Area

The geophysical survey area was based on maps provided by the NCDOT and discussions with NCDOT representative Mr. Tommy Douglas on December 3, 2002. The EM-61 survey area included the asphalt-covered loading area along Hearn Place, the asphalt-covered parking area along North Smith Avenue, and the grass-covered lot between the warehouse and 7th Street. Because the property line between Parcel 12 and Parcel 24B was not clearly identified, the geophysical survey area may have extended onto the southern and western edges of Parcel 12.

A portion of the grass-covered lot along the embankment wall covering approximately 2,400 square feet could not be surveyed due to fallen trees and brush. The strip of property between the concrete

embankment wall and the warehouse could not be surveyed due to limited space, trees and piles of miscellaneous supplies and equipment.

2.2 Location Control

A 10-foot by 10-foot survey grid was set up on the site as location control for the geophysical surveys. References to direction and location in this report are based on this X-Y coordinate grid system in footage increments. The grid system was established by measuring an X=250 base line along the western edge of North Smith Street. A Y=0 base line was established near the center of Hearn Place and perpendicular to the X-axis base line.

Grid marks were placed on the ground every 10 feet using water-based marking paint. These marks were used as location control when collecting the EM-61, GPR, and hand auger probe data. The locations of existing site features (building, streets, vehicles, fence lines, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

2.3 Data Collection

The majority of the EM-61 data were collected along northeast-southwest survey lines oriented parallel to the X-axis and spaced 2.5 feet apart covering approximately 27,500 square feet (0.63 acres). The EM-61 data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. Preliminary EM-61 results were emailed to NCDOT representatives Mr. Tommy Douglas and Mr. Cyrus Parker and to Solutions Industrial & Environmental Services representative Mr. Gary Birk on December 24, 2002.

GPR surveys were performed across selected EM-61 differential anomalies and steel-reinforced concrete pavement on January 8, 2003. The GPR data were digitally recorded and reviewed in the field to determine the approximate location and depth of objects. The GPR data were later transferred to a desktop computer for further review and plotting.

3.0 DISCUSSION OF RESULTS

Figure 1 shows the EM-61 early time gate results, which provide the most sensitive detection of metal targets regardless of size. Three linear anomalies parallel to 7th Street and centered near coordinates X=120 Y=333, are probably in response to utility lines. A northeast-southwest trending, linear, early time gate anomaly, beginning from approximately X=115 Y=237, and extending to X=123 Y=320, is probably in response to a utility line. This probable utility line may connect to one of the utility lines that run parallel to 7th Street. The high amplitude anomalies (contours shaded in red) located along the warehouse walls are probably in response to steel reinforced concrete sidewalks and/or the building.

The anomaly centered near coordinates X=245 Y=69, is probably in response to the water meters and the surface metal covers. A number of randomly scattered early time gate anomalies recorded across the grass lot and the area adjacent to the loading dock, appear to be in response to small, miscellaneous, metal debris.

The EM-61 differential plot (Figure 2) shows the difference between the response of the top and bottom coils of the EM-61. The differential response is taken to remove the effect of surface and very shallowly buried, insignificant metallic objects. Normally, this differential response indicates anomalies from deeper or larger objects such as UST's. Similar to the early time gate results, the linear differential anomalies recorded along 7th Street are probably in response to utility lines. The high amplitude anomalies along the building (contours shaded in red) are probably in response to the steel-reinforced concrete sidewalks and/or the building.

Three differential anomalies were recorded near grid coordinates X=121 Y=270, X=220 Y=166, and X=237 Y=96, respectively. The linear geometry of the early time anomaly at X=121 Y=270, and the narrow (2 feet) GPR responses over the anomaly, suggest the probably presence of a utility line. A portion of this utility line, from Y=265 to 275, appears to be buried approximately 1.7 below surface, whereas the segment of line from Y=277 to 287, appears to be buried approximately 2.4 feet deep (refer to Figure 3 for GPR images). Hand auger probing did not encounter the probable utility line.

Based on the early time gate results, the utility line may continue and possibly connect to a utility line that runs along 7th Street.

Similarly, the linear EM anomaly at X=220 Y=166, which may be located on Parcel 12, yielded narrow GPR responses. The linear geometry of the EM anomaly and the GPR responses suggest the probably presence of a utility line buried approximately 1.5 below surface. Due to its location to the road and warehouse, this probable utility line may still be active. Therefore, auger probing was not performed at this location. GPR results also suggest that the anomaly near X=237 Y=96, is in response to a small, miscellaneous metal object. The EM-61 differential results and GPR surveys suggest that the remaining portion of the survey area is free of large metal objects such as UST's or drums.

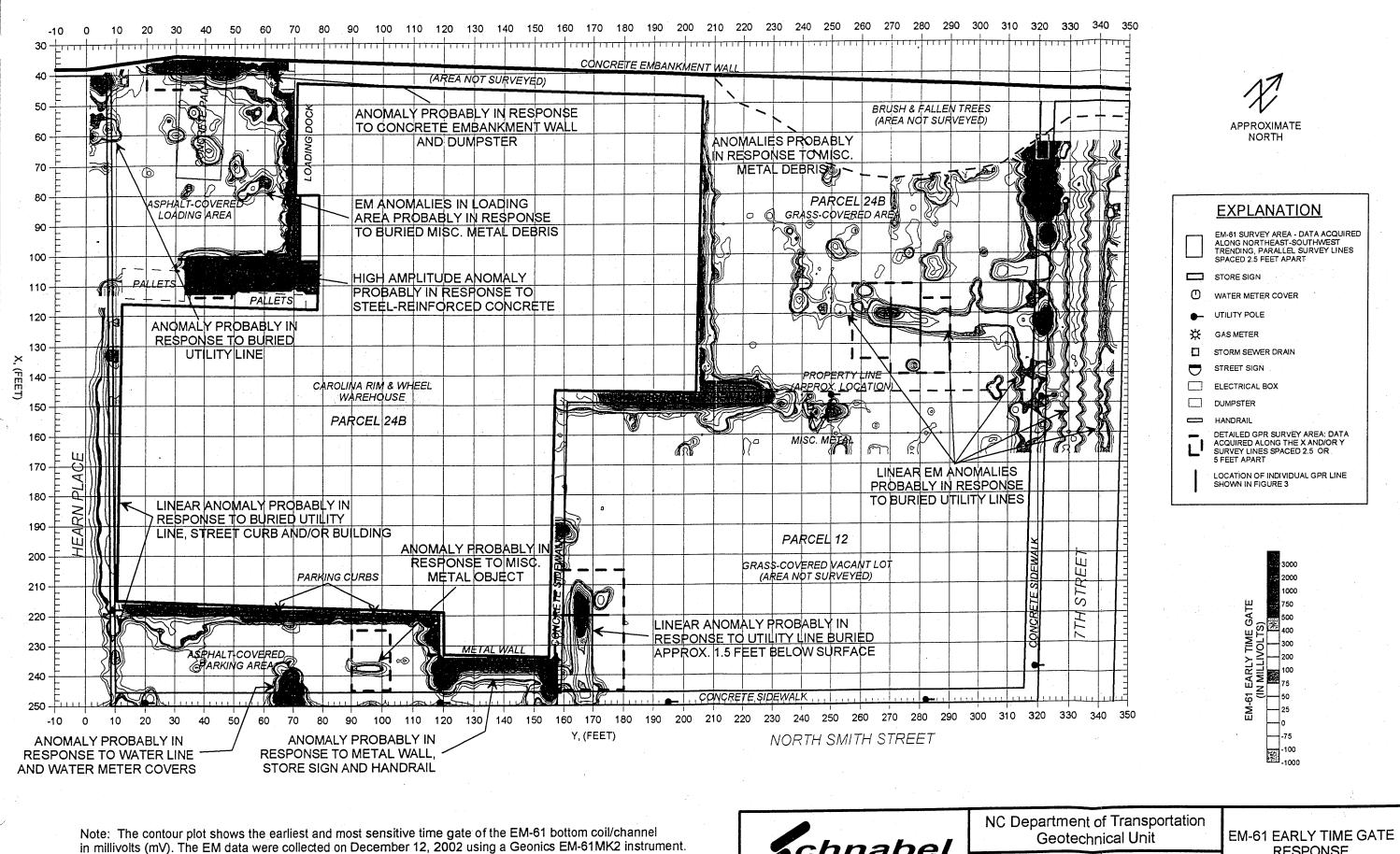
4.0 CONCLUSIONS

Our evaluation of the EM-61, GPR, and auger probe data collected across the John Mac Clements property, provides the following conclusions:

- A portion of the grass-covered lot along the embankment wall, covering approximately 2,400 square feet, could not be surveyed due to fallen trees and brush.
- Three linear EM-61 anomalies running parallel to 7th Street and centered near coordinates X=120 Y=333, are probably in response to utility lines.
- EM-61 and GPR data suggest the probably presence of a utility line beginning near X=115 Y=237, and extending to X=123 Y=320. This probable utility line may connect to one of the utility lines that run parallel to 7th Street.
- EM-61 and GPR data suggest the probably presence of a utility line running from the edge of North Smith Street at X=250 Y=167, and extending to X=212 Y=165. This probable utility line appears to be buried approximately 1.5 feet below surface and may not be located on the Mac Clements property.
- The EM-61 differential results and GPR surveys suggest that the remaining portion of the survey area is free of large metal objects such as UST's or drums.

5.0 <u>LIMITATIONS</u>

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



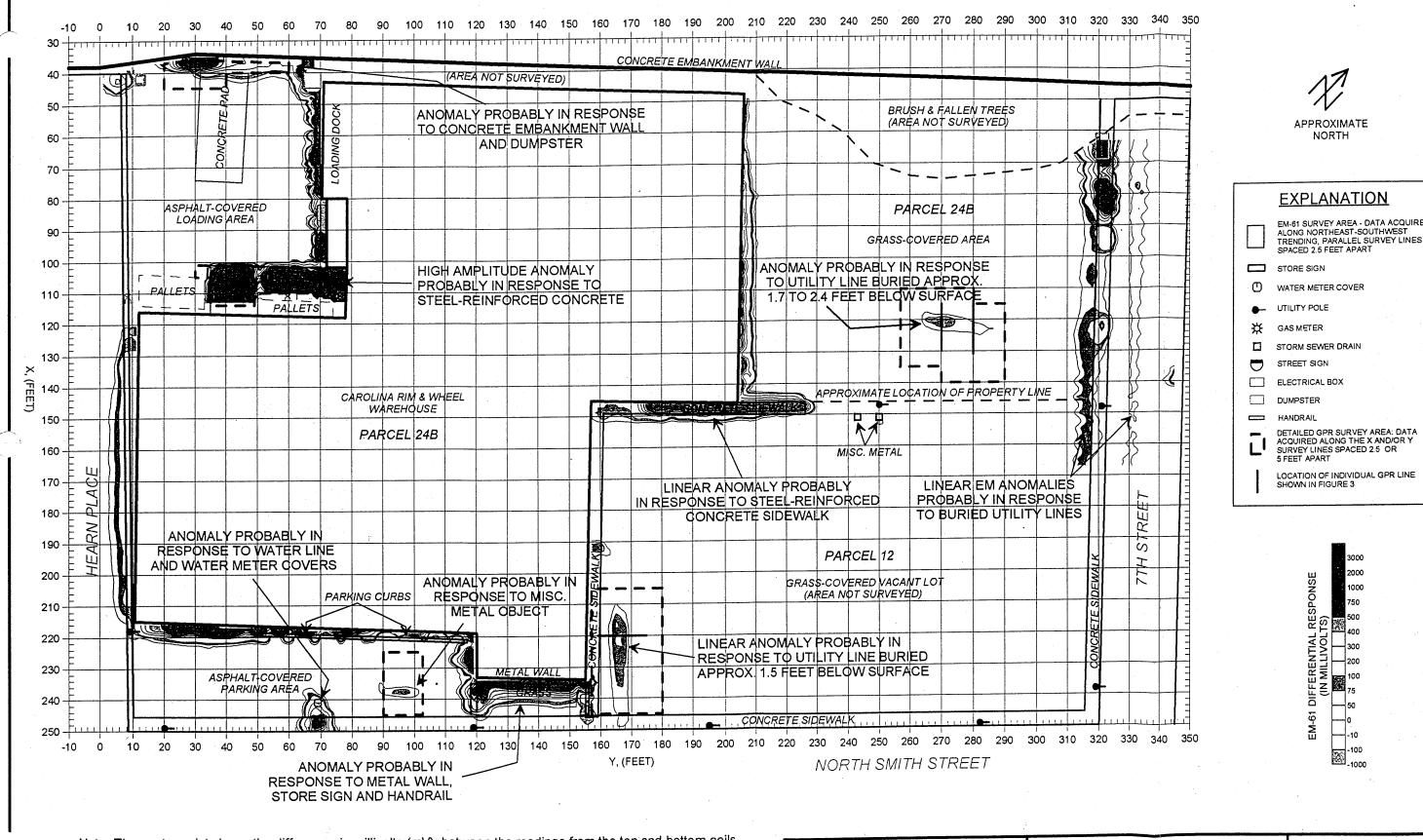
GPR data were acquired on January 8, 2003.

chnabel Schnabel Engineering Associates, Inc.

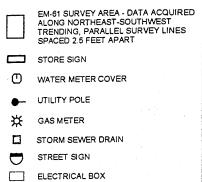
John Mac Clements et al Property Charlotte, North Carolina

RESPONSE

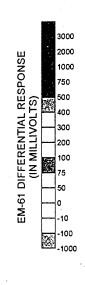
FIGURE 1



APPROXIMATE NORTH



EXPLANATION



Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM-61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as pipes and tanks. The EM data were collected on December 12, 2002 using a Geonics EM-61 MK2 instrument. GPR data were acquired on January 8, 2003.



NC Department of Transportation Geotechnical Unit

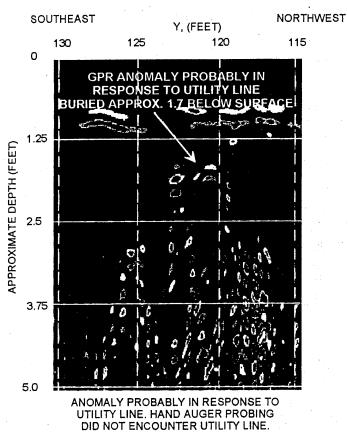
John Mac Clements et al Property Charlotte, North Carolina

EM-61 DIFFERENTIAL RESPONSE

FIGURE 2

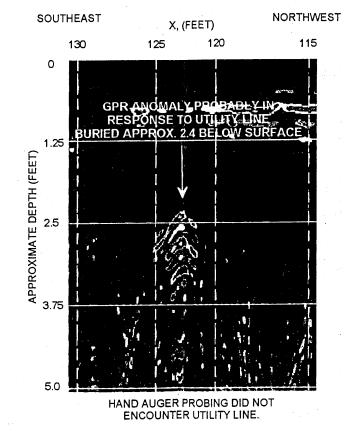
EM ANOMALY CENTERED NEAR X=121 Y=270

GPR LINE Y=270



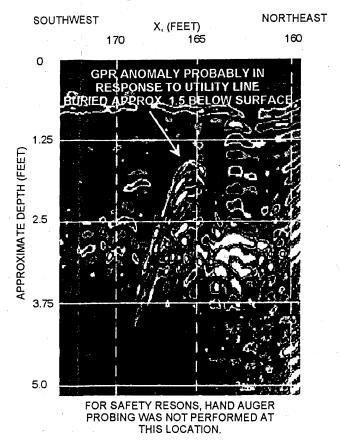
EM ANOMALY CENTERED NEAR X=121 Y=270

GPR LINE Y=280



EM ANOMALY CENTERED NEAR X=220 Y=166

GPR LINE X=220



Schnabel Engineering Associates, Inc.

NC Department of Transportation Geotechnical Unit

John Mac Clements et al Property Charlotte, North Carolina **GPR IMAGES**

FIGURE 3

APPENDIX B
PHOTOGRAPHS



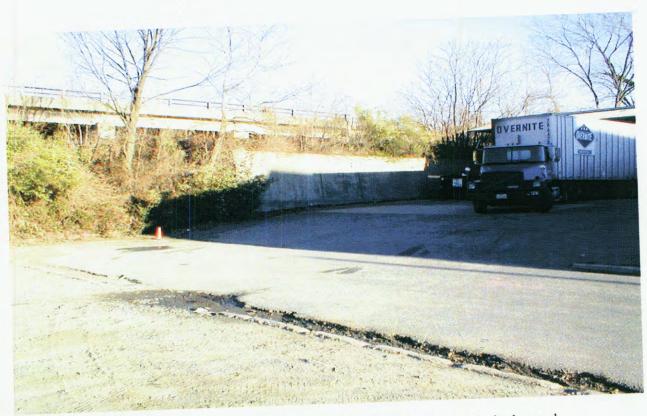
Photograph 1 – Looking south at borings SB-1 through SB-4.



Photograph 2 – Looking southwest at borings SB-5 through SB-7.



Photograph 3 – Looking southwest at borings SB-8 and SB-9.



Photograph 4 – Looking north at boring SB-10, railroad tracks are in the background.

APPENDIX C
BORING LOGS



Page:

BOREHOLE CONSTRUCTION LOG

NCDOT John MacClements Property	LOCATION Cha	arlotte NC			
th	LOGGED BY B	yan Wolfe			
DRILLING CONTRACTOR/DRILLER Solutions IES		BIT 2"			
HOD Geoprobe	SAMPLING ME	THOD Macro-core	START DATE 1/9/03	FINISH DATE 1/9/03	
SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE	
SURFACE TOP OF WE	LL CASING	TOP & BOTTOM S	CREEN GW SUF	RFACE DATE 1/9/03	
	th RILLER Solutions IES HOD Geoprobe SCREEN: TYPE	th LOGGED BY BI RILLER Solutions IES SIZE/ TYPE OF HOD Geoprobe SAMPLING ME SCREEN: TYPE MAT.	th LOGGED BY Bryan Wolfe RILLER Solutions IES SIZE/ TYPE OF BIT 2" HOD Geoprobe SAMPLING METHOD Macro-core SCREEN: TYPE MAT. LENGTH	LOGGED BY Bryan Wolfe RILLER Solutions IES SIZE/ TYPE OF BIT 2* HOD Geoprobe SAMPLING METHOD Macro-core START DATE 1/9/03 SCREEN: TYPE MAT. LENGTH DIA. SURFACE TOP OF WELL CASING	

ELLYATION	F: GROUND SURFACE	TOP OF WELL CA	ISING TOP & BOTTOM SCREEN	GW SURFACE	DA	E 1/9/03
Depth	Well Completion Details	Graphic .	Visual Description		Sample Number	OVA Value (ppm)
			Dark Brown Topsoil fill			
					-	
			Reddish Orange Silty Clay (A-6)	-		
					-	0.0
				-		
				_		0.0
			Paddish Occurs Co. I. Ol. (1.0)			
			Reddish Orange Sandy Clay (A-6) with tan and grey streaks			
				-		0.0
				_		
			•			
				_		0.0
				-		0.0
			oring Terminated at 12ft	-		
				-		
				_		
				_		



PROJECT NO./N	AME 1580 NCDO	T John MacClements	Property	LOCATION Charl	lotte NC		¬		
APPROVED BY				LOGGED BY Bry		<u> </u>	_		
DRILLING CONT	RACTOR/DRILLE	R Solutions-IES	<u> </u>	SIZE/ TYPE OF B			<u> </u> ,		
	MENT/METHOD			SAMPLING METH			<u></u>		
CASING MAT/DIA		SCREEN: TYPE		AT.	LENGTH	START DA		INISH DATE 1/9.	/03
ELEVATION OF:	GROUND SURFA	<u> </u>	TOP OF WELL C		TOP & BOTTOM S	YADEEN	DIA.	SLOT SIZE	· · · · · · · · · · · · · · · · · · ·
1					TOP & BUTTOM'S	CREEN	GW SURFACE	DA1	TE 1/9/03
Depth	Well Comple	etion Details	Graphic		Visual Desc.	ription		Sample Number	OVA Valu (ppm)
	<u> </u>	-		Topsoil with gr	ass				
1				Orange Red Sil	ty Clay (A-6)				
				with gray and ta	an streaks			~-	
1				Reddish Orange	Sandy Clay (A-6)				
				with gray streak					
i	•					·			0.0
								1	0.0
1									
								ł	
1				Reddish Orange with small quartz	Sandy Clay (A-6) fragments			~	0.0
;				Reddish Orange with gray streaks	Sandy Clay (A-6)	<u> </u>		}	
:				• ,					
								1	
:								-	0.0
						•		-	
								}	
:								-	0.0
								ł	
				Gray Sandy Clay ((A-6)				
			2222	with small quarts p	ebbles				
:				Reddish Orange C very dense	inay (Aco)			_	0.0
				Reddish Orange C	Inv (A C)			1	0.0
			11/1/24	with gray streaks, t	very dense				
•				Boring Terminated	at 11.5ft		,		
								İ	
								-	
								J	



Page: BOREHOLE CONSTRUCTION LOG

BOREHOLE NO. SB-3		CONSTRUC	S HON LOG			
PROJECT NO JNAME 1580	NCDOT John MacClements Property	LOCATION C	harlotte, NC			
APPROVED BY Walt Beckw	ith	LOGGED BY				
DRILLING CONTRACTOR/DRILLER Solutions-IES			SIZE/ TYPE OF BIT 2"			
ORILLING EQUIPMENT/ME	THOD Geoprobe	SAMPLING M.	SAMPLING METHOD Macro-core START DAT		1/0/03	EINICH DATE 410/02
ASING MAT/DIA.	SCREEN: TYPE	MAT.	LENGTH			FINISH DATE 1/9/03
LEVATION OF: GROUND	SURFACE TOP OF WE				IA.	SLOT SIZE
:		LL CASHIO	TOP & BOTTOM S	SCREEN	GW SUR	FACE DATE 1/9/03

· · · · · · · · · · · · · · · · · · ·			TOP & BOTTOM SCREEN	GW SURFACE	DA1	E 1/9/03
Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Value
	- · · · · · · · · · · · · · · · · · · ·		Dark Brown Topsoil Fill			<u> </u>
			D. I. B. Communication of the	- 10.		
			Dark Red Silty Clay (A-6)	-	-	0.0
			Reddish Orange Silty Clay (A-6) with gray streaks		}	
			· ·	-		
					ł	
			÷			
:				-	ł	0.0
1						
			Reddish Orange Sandy Clay (A.S.)			
			Reddish Orange Sandy Clay (A-6) with tan and gray streaks			
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}			Dark Prouse Sant. Claude St			
			Dark Brown Sandy Clay (A-6) with large quartz fragments]	0.0
			Reddish Orange Sandy Clay (A-6) with gray streaking			
			with gray streaking			
						0.0
			,			0.0
		HAMI.	Boring Terminated at 11ft			·
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Page:	BOREHOLE CONSTRUCTION LOG
BOREHOLE NO. SB-4	THE TE SOMETHOUSE FOR

BOREHOLE NO. SB-4		- 00N01N0	CHON LUG		
PROJECT NO JNAME 1580	NCDOT John MacClements Property	LOCATION	Charlotte, NC		
APPROVED BY Walt Beckw			Y Bryan Wolfe		
DRILLING CONTRACTOR/		SIZE/ TYPE	OF BIT 2"		
DRILLING EQUIPMENT/ME	THOD Geoprobe	SAMPLING I	SAMPLING METHOD Macro-core START DAT		FINISH DATE 1/9/03
CASING MAT/DIA	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
ELEVATION OF: GROUND	SURFACE TOP OF V	VELL CASING	TOP & BOTTOM S	CREEN GW SUF	

	F: GROUND SURFACE	TOP OF WELL CA	ASING TOP & BOTTOM SCREEN	GW SURFACE	DAI	E 1/9/03
Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Valu (ppm)
			Fragmented black rock fill			
			Reddish Brown Silty Clay (A-6) with bright red streaks		-	0.0
			Reddish Orange Silty Clay (A-6) with tan and gray streaks			
1					-	0.0
				-	-	0.0
			Reddish Orange Sandy Clay (A-6) with gray streaks	-		<u>. </u>
				_		0.0
				-		
:						4.0
'			Dark Black Sandy Clay (A-6) with quartz rock fragments			1.9
			Reddish Orange Sandy Clay (A-6) with rock fragments			
	,			· -		0.0
		E	Boring Terminated at 12ft			<u>. </u>
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1				, _		
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Page:	BOREHOLE CONSTRUCTION LOG
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ELEVATION OF: GROUND		MAT.	LENGTH	DIA	SLOT SIZE
CASING MAT/DIA	SCREEN: TYPE			START DATE 1/9/03	FINISH DATE 1/9/03
DRILLING EQUIPMENT/MET	HOD Geoprobe	SAMPLING MET	HOD Macro-core	START DATE 1/9/03	
DRILLING CONTRACTOR/D		SIZE/ TYPE OF	BIT 2*		
APPROVED BY Walt Beckwi		LOGGED BY Br	yan Wolfe		
	NCDOT John MacClements Property	LOCATION Cha	rlotte, NC		
BOREHOLE NO. SB-5					

CELETATION OF	GROUND SURFACE	TOP OF WELL C	ASING TOP & BOTTOM SCREEN	GW SURFACE	DA1	E 1/9/03
Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Values (ppm)
1	-		Topsoil, Reddish Brown Fill			
_			Topsoil, Black Rocky			
						0.0
			Reddish Orange Silty Clay (A-6) with tan streaks			
			with tan streaks			
					_	
						0.0
					ĺ	
1			Reddish Orange Silty Clay (A-6) with quartz rock fragments		. —	
					-	0.0
1					1	
1			Orange/gray Sandy Clay (A-6)			
			Orange/gray Sandy Clay (A-6) with some quartz fragments	-	ĺ	
					_	2.2
						0.0
	•					
		1 1	Boring terminated at 8ft due to refusal			
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Page:	BOREHOLE CONSTRUCTION LOG
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BOREHOLE NO. SB-6		· oonomo	CHOIN FOR		
PROJECT NO./NAME 1580	NCDOT John MacClements Property	LOCATION	Charlotte, NC		
APPROVED BY Walt Becky		LOGGED BY	Bryan Wolfe		
DRILLING CONTRACTORI		SIZE/ TYPE (OF BIT 2"		
DRILLING EQUIPMENT/ME	THOD Geoprobe	SAMPLING N	METHOD Macro-core	START DATE 1/9/03	FINISH DATE 1/9/03
CASING MAT/DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
ELEVATION OF: GROUND	SURFACE TOP OF WI	LL CASING	TOP & BOTTOM S	CREEN GW SUF	

	F: GROUND SURFACE	TOP OF WELL C	ASING TOP & BOTTOM SCREEN	GW SURFACE	DA1	E 1/9/03
Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Values (ppm)
			Fill, Crushed Stone			
1					ļ	
i					-	0.0
:						
	•		Reddish Orange Sandy Clay (A-6)			
					ļ	
•	•			-	-	0.0
			Politico Company			
5			Reddish Orange Sandy Soil (A-2-4) Loosely packed		1	
i						0.0
			Hard Reddish Orange Silty Clay (A.6)			
•			Hard Reddish Orange Silty Clay (A-6) with with tan and gray streaks			0.0
			Boring Terminated at 7ft due to refusal			
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	BOREHOLE CONSTRUCTION LOG
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BOREHOLE NO. SB-7		CONSTRUCTION LOG		
	NCDOT John MacClements Property	LOCATION Charlotte, NC		
APPROVED BY Walt Becky		LOGGED BY Bryan Wolfe		
DRILLING CONTRACTOR!		SIZE/ TYPE OF BIT 2"		
CASING MAT/DIA	SCREEN: TYPE	SAMPLING METHOD Macro-core	START DATE 1/9/03	FINISH DATE 1/9/03
ELEVATION OF: GROUND		MAT. LENGTH	DIA.	SLOT SIZE
		LL CASING TOP & BOTTOM	SCREEN GW SUF	RFACE DATE 1/9/03

	F: GROUND SURFACE	TOP OF WELL C	ASING TOP & BOTTOM SCREEN GW SURFACE	DA	TE 1/9/03
Depth	Well Completion Details	Graphic	Visual Description	Sample Number	OVA Value (ppm)
!			Crushed rock and concrete fill	<u> </u>	
1			Blackish Sandy Soil (A-6) with rock fragments	-	0.0
:			Reddish Orange Silty Clay (A-6) with gray and tan streaks		
				-	0.0
· ·			Reddish Orange Sandy Clay (A-6) with gray and tan streaks		
:			Dense, Gray/orange Sandy Soil (A-6) with rock fragments	-	0.0
			· ·		0.0
			Boring terminated at 7ft due to refusal		
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	BOREHOLE CONSTRUCTION LO	_
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PROJECT NO /NAME 1580	NCDOT John MacClements Property	· ,			
		LOCATION	Charlotte, NC		
	PPROVED BY Walt Beckwith		Y Bryan Wolfe		
DRILLING CONTRACTOR/		SIZE/ TYPE	OF BIT 2"	· ·	
ORILLING EQUIPMENT/ME	THOD Geoprobe	SAMPLING I	METHOD Macro-core	START DATE 1/10/03	FINISH DATE 1/10/03
CASING MAT/DIA.	SCREEN: TYPE	MAT.	LENGTH		FINISH DATE 1/10/03
LEVATION OF: GROUND	SURFACE TOD OF MIS	11.010010		DIA.	SLOT SIZE
ELEVATION OF: GROUND	SURFACE TOP OF WE	LL CASING	TOP & BOTTOM S	SCREEN GW SUR	FACE DATE 1/1/

	GROUND SURFACE	TOP OF WELL CA	SING TOP & BOTTOM SCREEN	GW SURFACE	DA	E 1/10/03
Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Value (ppm)
•			Asphaft Reddish Orange Silty Clay (A-6) with tan and gray streaks		-	0.0
:					_	0.0
5 _.			Reddish Orange Silty Clay (A-6) with small pebbles and gray, tan, and white streaks		-	0.0
				-		0.0
)			Dark Gray Sandy Clay A-6) Some quartz gravel Reddish Orange Sandy Clay (A-6) with gray, white and tan streaking			0.0
:			oring Terminated at 12ft	-		0.0
				••		
<u>.</u>)		



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'age:	
	BOREHOLE CONSTRUCTION LOG

SING MAT/DIA. SCREEN: TYPE			LOTAKT DATE 1/10/03	FINISH DATE 1/10/03				
oprobe	SAMPLING N	IETHOD Macro core	START DATE 1/10/03					
Solutions-IES	SIZE/ TYPE (OF BIT 2"						
	LOGGED BY	LOGGED BY Bryan Wolfe						
ohn MacClements Property	LOCATION	Charlotte, NC						
	ohn MacClements Property Solutions-IES oprobe	LOGGED BY Solutions-IES SIZE/ TYPE (Solutions-IES SIZE/ TYPE OF BIT 2"	LOGGED BY Bryan Wolfe Solutions-IES SIZE/ TYPE OF BIT 2"				

				TOP & BUTTOM SCREEN	GW SURFACE	DAT	E 1/10/03
	Depth	Well Completion Details	Graphic	Visual Description		Sample Number	OVA Values (ppm)
	- -			Asphalt Reddish Orange Silty Clay (A-6) with tan and gray streaks		-	0.8
	- ! -			Paddish Osean Sile Charles		•	0.2
 - -	-s'			Reddish Orange Silty Clay (A-6) With small pebbles and gray, tan, and white streaks	-		4.8
	1				-		0.0
 - 	10				-		0.0
-				Soring Terminated at 12ft	_		0.0
-					,		
- 15	5				-		



Page: BOREHOLE CONSTRUCTION LOG

BOREHOLE NO. SB-10			<u></u>						
PROJECT NO./NAME 1580	NCDOT John MacClements Propert	y LOCATION	Charlotte, NC						
APPROVED BY Wait Beckw			LOGGED BY Bryan Wolfe						
DRILLING CONTRACTOR/I		SIZE/ TYPE	SIZE/ TYPE OF BIT 2"						
DRILLING EQUIPMENT/ME	THOD Geoprobe	SAMPLING I	METHOD Macro-core	START DATE	1/10/03	FINISH DATE 1/10/03			
CASING MAT/DIA	SCREEN: TYPE	MAT.	LENGTH		———- IA.	SLOT SIZE			
ELEVATION OF: GROUND	SURFACE TOP OF	WELL CASING	TOP & BOTTOM S	SCREEN	GW SURE				

	OF: GROUND SURFACE	TOP OF WELL C	ASING TOP & BOTTOM SCREEN GW SURFACE	DA1	E 1/10/03
Depth	Well Completion Details	Graphic	Visual Description	Sample Number	OVA Values (ppm)
			Asphalt		ļ
			Crushed Stone Fill Tan Sand (A-3)		
. •			· · · · · · · · · · · · · · · · · · ·	-	1.0
				ĺ	
	•				
				ł	
			Black Sand (A-3) with quartz fragments	- [0.0
			mar quarte nagments		
			Reddish Orange Silty Clay (A-6) with tan & gray streaks	-	4.9
			All a gray sucers		
		2000///2	Light Gray Sand (A-3) with some small rounded gravel, densely packed		
			with some small rounded gravel, densely packed		0.2
			Boring Terminated at 7ft due to refusal		—— <u> </u>
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APPENDIX D LABORATORY ANALYTICAL REPORTS





Full Service Analytical & Environmental Solutions

Page 1 of 5

Solutions - IES

1/22/03

Attn: Gary Birk

3722 Benson Dr.

Raleigh, NC 27609

Customer Project ID: **NCDOT Parcel 24B**

SB-1-6-8 Customer Sample ID:

> Prism Sample ID: AC69322

> > Login Group: 5316K5

Sample Collection Date/Time: 1/9/03

13:40

Lab Submittal Date/Time: 1/10/03

15:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	1/15/03 21:22	EHT
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	1/14/03 21:13	JMV
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	1/14/03 18:00	cwc
PREP. METHOD 3545 FOR DIESEL	Completed			SW846-3545	1/14/03 17:00	cwc

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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



Page 2 of 5

1/22/03

Solutions - IES

Attn: Gary Birk

3722 Benson Dr.

Raleigh, NC 27609

Customer Project ID: NCDOT Parcel 24B

Customer Sample ID:

SB-4-8-10 AC69323

Prism Sample ID:

Login Group:

5316K5

15:50

Sample Collection Date/Time: Lab Submittal Date/Time: 1/10/03

1/9/03

15:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	25	mg/kg	10	8015MOD/3550	1/15/03 23:38	EHT
TPH-GASOLINE RANGE / PREP. 503	Less than	mg/kg	1.0	8 015MOD/5030	1/15/03 23:49	JMV
CALCULATIONS BASED ON DRY WI	. 89	% DRY WT.	0.01	SM 2540 G	1/14/03 18:00	cwc
PREP. METHOD 3545 FOR DIESEL	Completed			SW846-3545	1/14/03 17:00	cwc

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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



1/22/03

Page 3 of 5

Solutions - IES

Customer Project ID:

NCDOT Parcel 24B

Attn: Gary Birk

Customer Sample ID:

SB-5-6-8

3722 Benson Dr.

Prism Sample ID: AC69324 5316K5

Raleigh, NC 27609

Login Group: Sample Collection Date/Time:

1/9/03

17:25

Lab Submittal Date/Time: 1/10/03

15:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DESEL RANGE	Less than	mg/kg ⁻	10	8015MOD/3550	1/15/03 22:07	EHT
TFH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	1/16/03 01:37	JMV
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	1/14/03 18:00	cwc
PREP. METHOD 3545 FOR DIESEL	Completed			SW846-3545	1/14/03 17:00	cwc

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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



Full Service Analytical & Environmental Solutions

1/22/03

Page 4 of 5

Solutions - IES

Customer Project ID:

NCDOT Parcel 24B

Attn: Gary Birk

Customer Sample ID:

SB-9-4-6

3722 Benson Dr.

Prism Sample ID: AC69325

Raleigh, NC 27609

Login Group: 5316K5

Sample Collection Date/Time:

1/10/03

08:10

Lab Submittal Date/Time: 1/10/03

15:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST FARAMETER	TEST RESULT UNITS		REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST	
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	1/15/03 22:52	EHT	
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	1/16/03 02:12	JMV	
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	1/14/03 18:00	cwc	
PREP. METHOD 3545 FOR DIESEL	Completed			SW846-3545	1/14/03 17:00	cwc	

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services



Page 5 of 5

1/22/03

Customer Project ID:

Solutions - IES

NCDOT Parcel 24B

Attn: Gary Birk

Customer Sample ID: SB-10-4-6

3722 Benson Dr.

Prism Sample ID: AC69326

Raleigh, NC 27609

Login Group: 5316K5

Sample Collection Date/Time:

1/10/03

08:53

Lab Submittal Date/Time: 1/10/03

15:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	1/16/03 00:25	EHT
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	1/16/03 02:48	JMV
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	1/14/03 18:00	cwc
PREP. METHOD 3545 FOR DIESEL	Completed			SW846-3545	1/14/03 17:00	cwc

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services



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LAB USE ONLY	Samples INTACT upon arrival? Received ON WET ICE? Temp	PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE?	THOPEN CONTAINERS USED?		SC OTHER N/A Water Chlorinated: YES NO ₹✓∧ Sample Iced Upon Collection: YES ⋉ NO		REMARKS								PRESS DOWN FIRMLY - 3 COPIE
RECORD	1	UST Project: (Yes) ((No) Received in the PROPERTY (No) Received in		3		ANALYSES REQUESTED		X.	X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1				Affiliation Science Control
OF CUFTODY RECORD	QUOTE # TO ENSURE PROPER BILLING:	(Yes) (Ng) UST Project Specific reporting equirements		4 ~ ~	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 REGANDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)	ER	SIZE	a fresh) \						Police
CHAIN OF	PAGE ← OF 1 QUOTE #	Analysis: TACH any prand/or QC R	Address:	Purchase Order No./Billing Reference 1/4 Requested Due Date 10.1 Day 10.2 Days 10.3 E 10.6-9 Days 2cStandard 10	Samples received after 15:00 Turnaround time is based on (SEE REVERSE FOR TENI RENDERED BY PRISM L.	SAMPLE CONTAINER	SEE BELOW NO.	(d) -		:	<u>}</u>		and the second s		Sampled By (Print Name)
				2		MATRIX D (SOIL,	¥ ω	3	(; <u>-</u>		7	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	:	:	Sampled By
Day	FKISM LABORATORIES, INC.	Full Service Analytical & Environmental Solutions ok Road • P.O. Box 240543 • Charlotte, NC 2/9-6364 • Fax: 704/525-0409 ny Name:		Yes)	;s:	TIME TIME COLLECTED	CTED MILITARY HOURS	95 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	52LT (2)		37 200 200 200 200 200 200		•		K
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		449 Springb Phone: 704/ Client Com! Report To/C	Reporting Address:	Phone: 41: 578	Site Locatio	CLIENT	SAMPLE DESCRIPTION			6/3/7	210.	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	f		Sampler's Signature

PIES PRISM 17 NO. 17. 5.7 3220 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.

| Received By (Signature) | Received By (Signature) | Received By (Signature) | Plate | Militare | Plate | Militare | Plate | P

PRISM USE ONLY Site Departure Time: Site Arrival Time: Field Tech Fee: Mileage:

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SEE REVERSE FOR TERMS & CONDITIONS

FINAL REPORT COPY

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OTHER:

LANDFILL

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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.

Received For Prism Laboratories By:

Received By: (Signature)

Relinquished By: (Signature)

Relinquished By: (Signature)