

**PRELIMINARY SITE ASSESSMENT
ARNOLD AND MARJORIE ROBBINS PROPERTY
801 WILSON LEE BOULEVARD
STATESVILLE, NORTH CAROLINA
STATE PROJECT: B-2576
WBS ELEMENT: 32669.1.1**

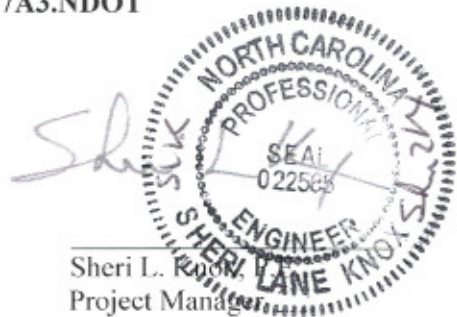
Prepared for:
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Solutions-IES Project No. 3610.07A3.NDOT



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July 30, 2007

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to replace Bridges 513 and 514 over the Norfolk Southern Railroad along Wilson Lee Boulevard in Statesville, Iredell County, North Carolina, and the NCDOT is interested in acquiring additional property for new bridge construction in that area. The Arnold and Marjorie Robbins property (i.e. the Arnold Robbins property), located in line with the railroad bridges, is one of the properties considered for acquisition. The location of the parcel is shown on **Figures 1 and 2**. This report summarizes the results of field and laboratory activities conducted during the Preliminary Site Assessment (PSA) of the Arnold Robbins property. The scope of work executed at the site was performed in general accordance with Solutions-IES proposal NC0661P dated May 29, 2007, and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on May 30, 2007 under contract 7000007053, dated June 5, 2006.

2.0 BACKGROUND AND SITE DESCRIPTION

The PSA was performed on the parcel that encompasses the Arnold Robbins property (Study Area), at 801 Wilson Lee Boulevard in Statesville, Iredell County, North Carolina. The subject property is located on the east side of Wilson Lee Boulevard across from the Church of the Living God in Statesville. The PSA was performed over the entire subject property site. Because the building on the property resembles an old gas station, the PSA focused on petroleum-related impacts. A photograph of the vacant building on the site is included in **Appendix A**.

3.0 FIELD ACTIVITIES

Prior to mobilizing to the site to conduct work, Solutions-IES contacted North Carolina One Call and KCI Associates of North Carolina to locate underground utilities at the site. Pyramid Environmental & Engineering, P.C. (Pyramid) was contracted to perform a geophysical survey, and mobilized to the Study Area on June 4, 2007. The electromagnetic survey equipment (EM61) used by Pyramid identified various magnetic anomalies within the Study Area, and so Pyramid returned to the Study Area to perform a ground penetrating radar (GPR) survey utilizing a “Geophysical Survey Systems SIR 2000” instrument. Results of the surveys did not suggest the presence of buried metallic underground storage tanks (USTs). Images of the EM61 and GPR findings are included in the geophysical report included as **Appendix B**. After a review of the geophysical report, Solutions-IES mobilized to the site on June 18, 2007 to collect soil samples. Ten soil borings were advanced to a depth of 12 feet below ground surface (ft bgs) using a

Geoprobe[®]. The borings were generally spaced approximately 12 to 30 feet apart at the approximate locations displayed in **Figure 3**. The GPS coordinates are included in **Appendix C**.

A MacroCore[®] sampler fitted with a dedicated polyvinyl chloride (PVC) liner was used to collect samples at 2-foot intervals. Each soil sample was split into two 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 a flame ionization detector (FID). After approximately 20 minutes to allow accumulation of volatile organic compounds (VOCs) in the headspace of the bag, each sealed bag was scanned with the FID. The FID measurements were entered on the boring logs along with the soil description and any indications of petroleum staining or odor. The boring logs are provided in **Appendix D** and the field screening results are summarized in **Table 1**. The field screening results are also summarized on the boring logs where the field screening results are rounded to the nearest whole number.

The subsurface at the site generally consisted of red to brown silty clays and clayey silts (Unified Soil Classification CL/ML). Some gravel was also identified in some of the borings. Soils were dry and groundwater was not encountered in the borings to a depth of 12 ft bgs.

Table 1 shows the field screening results of the soils ranged from not detected to 3.4 parts per million (ppm). A soil sample was collected from each boring at the interval identified in **Table 1** and was placed in laboratory-supplied jars and stored on ice pending shipment to Pace Analytical Laboratories, Inc. in Huntersville, NC. Sample information was recorded on the chain-of-custody form, and the samples were submitted for analysis of gasoline range organics (GRO) and diesel range organics (DRO) total petroleum hydrocarbons (TPH) by EPA Modified Method 8015 with preparation methods 5030 and 3545, respectively.

4.0 LABORATORY RESULTS

Laboratory analytical results do not indicate the presence of TPH in soil samples collected from Borings GP-1, GP-2, GP-3, GP-5, GP-8, GP-9 and GP-10. However, TPH (DRO) was detected in the soil samples collected from borings GP-4, GP-6 and GP-7 at a concentration of 61 mg/kg, 22 mg/kg and 30 mg/kg, respectively. The analytical results are summarized in **Table 2**, and the laboratory report is included in **Appendix E**. **Appendix E** includes the laboratory report for work discussed in this report and for the James Hunter Property which is reported under a separate cover.

DISCUSSION

Solutions-IES advanced ten soil borings at the Study Area to a depth of 12 ft bgs. The highest FID reading measured 3.4 ppm in the sample collected from boring GP-3 at a depth of 10 to 12 ft bgs; however, this sample did not contain concentrations of TPH GRO or TPH DRO above the laboratory reporting limit.

TPH concentrations did not exceed the laboratory reporting limits in any soil samples collected during site work except for the soil samples collected from borings GP-4, GP-6 and GP-7. TPH DRO was detected in soil samples collected from borings GP-4 (61 mg/kg), GP-6 (22 mg/kg) and GP-7 (30 mg/kg) at concentrations which exceed the tank closure screening level of 10 mg/kg in *Underground Storage Tank Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement*, (State of North Carolina Department of Environment and Natural Resources [NCDENR], Division of Waste Management [DWM], Underground Storage Tank [UST] Division, July 1, 2007) (*Closure Guidelines*). The screening levels provided in the *Closure Guidelines* are used to determine if a release has occurred and to guide response and abatement actions for UST releases. The source of the contamination is currently unknown. However, based on the available information, the impacted areas appear to be isolated, and compact, and so the source of contamination may be attributed to poor petroleum waste disposal practices, or surface spills.

A release identified by an exceedance of the 10 mg/kg TPH screening level may require further assessment as provided in the *Guidelines for Assessment and Corrective Action, North Carolina UST Section, NCDENR, July, 2001*(*Corrective Action Guidelines*). The *Corrective Action Guidelines* action level is used as a cleanup level, and requires soils from a confirmed release to be cleaned up to a level of 40 mg/kg TPH DRO. Only the shallow soil sample (0 to 2 ft bgs) from boring G-4 is above the 40 mg/kg cleanup goal.

TABLES

Table 1
Summary of Field Screening Results
Arnold Robbins Property
Statesville, Iredell County, NC
WBS Element: 32669.1.1
Solutions-IES Project No. 3610.07A3.NDOT
Sample Collection Date: June 18, 2007 to June 19, 2007

Sample Depth (ft bgs)	Soil Boring Identification							
	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8
	FID Reading (ppm)							
0 - 2	0.1	0.6	2.2	1.0	2.1	0.0	ND	ND
2 - 4	0.4	ND	2.8	0.8	0.3	0.2	ND	ND
4 - 6	0.8	2.1	2.5	ND	1.1	0.4	ND	ND
6 - 8	2.1	2.1	3.2	0.3	1.6	0.8	0.1	ND
8 - 10	2.5	2.6	3.2	0.1	2.1	1.2	1.0	ND
10 - 12	2.9	2.8	3.4	0.1	2.4	0.2	0.2	0.0

Sample Depth (ft bgs)	Soil Boring Identification	
	GP-9	GP-10
	FID Reading (ppm)	
0 - 2	ND	ND
2 - 4	ND	ND
4 - 6	ND	ND
6 - 8	ND	ND
8 - 10	ND	ND
10 - 12	ND	ND

NOTES:

FID = Flame Ionization detector; FID readings were obtained with Photovoic Micro FID Flame Ionization Detector

ppm = parts per million

Samples denoted by shaded cells were submitted for laboratory analysis

ND = not detected

ft bgs = feet below ground surface

Table 2
Summary of Field Screening Results
Arnold Robbins Property
Statesville, Iredell County, NC
WBS Element: 32669.1.1
Solutions-IES Project No. 3610.07A3.NDOT
Sample Collection Date: June 18, 2007 to June 19, 2007

TPH DRO and TPH GRO (Method 8015B)										
Sample ID			GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8
Depth (ft bgs)			10 - 12	10 - 12	10 - 12	0-2	10 - 12	8 - 10	8 - 10	10 - 12
Date Collected			6/18/2007	6/18/2007	6/18/2007	6/18/2007	6/18/2007	6/18/2007	6/18/2007	6/19/2007
Parameter	Regulatory Limit ¹	Units								
TPH DRO	10	mg/kg	<6.3	<6.8	<6.6	61	<6.2	22	30	<6.4
TPH GRO	10	mg/kg	<4.8	<5.4	<5.9	<5.7	<5.1	<5.4	<4.7	<5.4

TPH DRO and TPH GRO (Method 8015B)				
Sample ID			GP-9	GP-10
Depth (ft bgs)			10 - 12	10 - 12
Date Collected			6/19/2007	6/19/2007
Parameter	Regulatory Limit ¹	Units		
TPH DRO	10	mg/kg	<6.4	<5.9
TPH GRO	10	mg/kg	<5.0	<5.8

NOTES:

ft bgs = feet below ground surface

Bold values indicate detected concentrations above reporting limit

Shaded values indicate concentrations above the regulatory limit

TPH = Total Petroleum Hydrocarbons

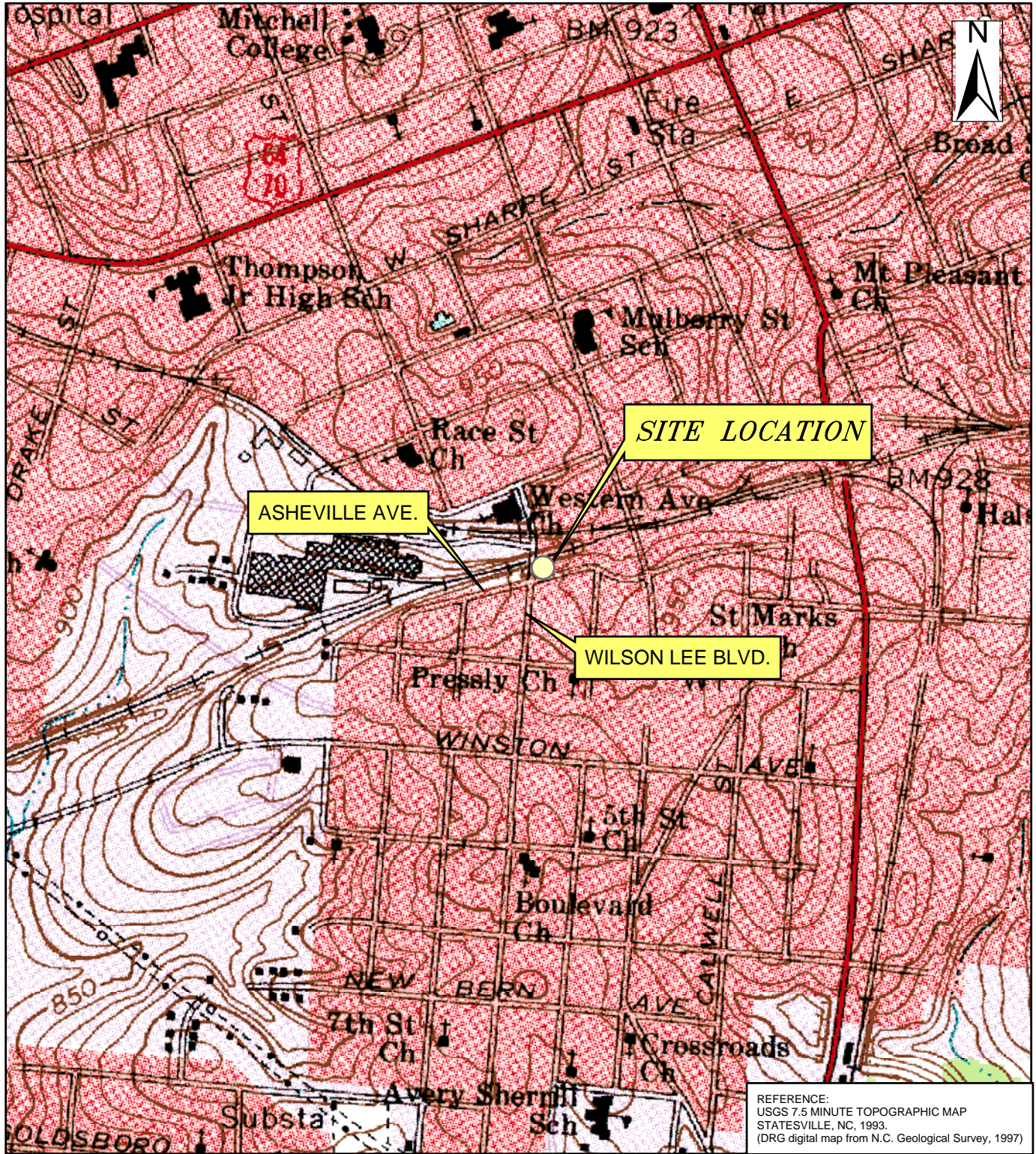
DRO = Diesel Range Organics

GRO = Gasoline Range Organics

mg/kg = milligrams per kilogram

¹ Regulatory Limits are the screening levels from NCDENR "Underground Storage Tank Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement", July 1, 2007.

FIGURES

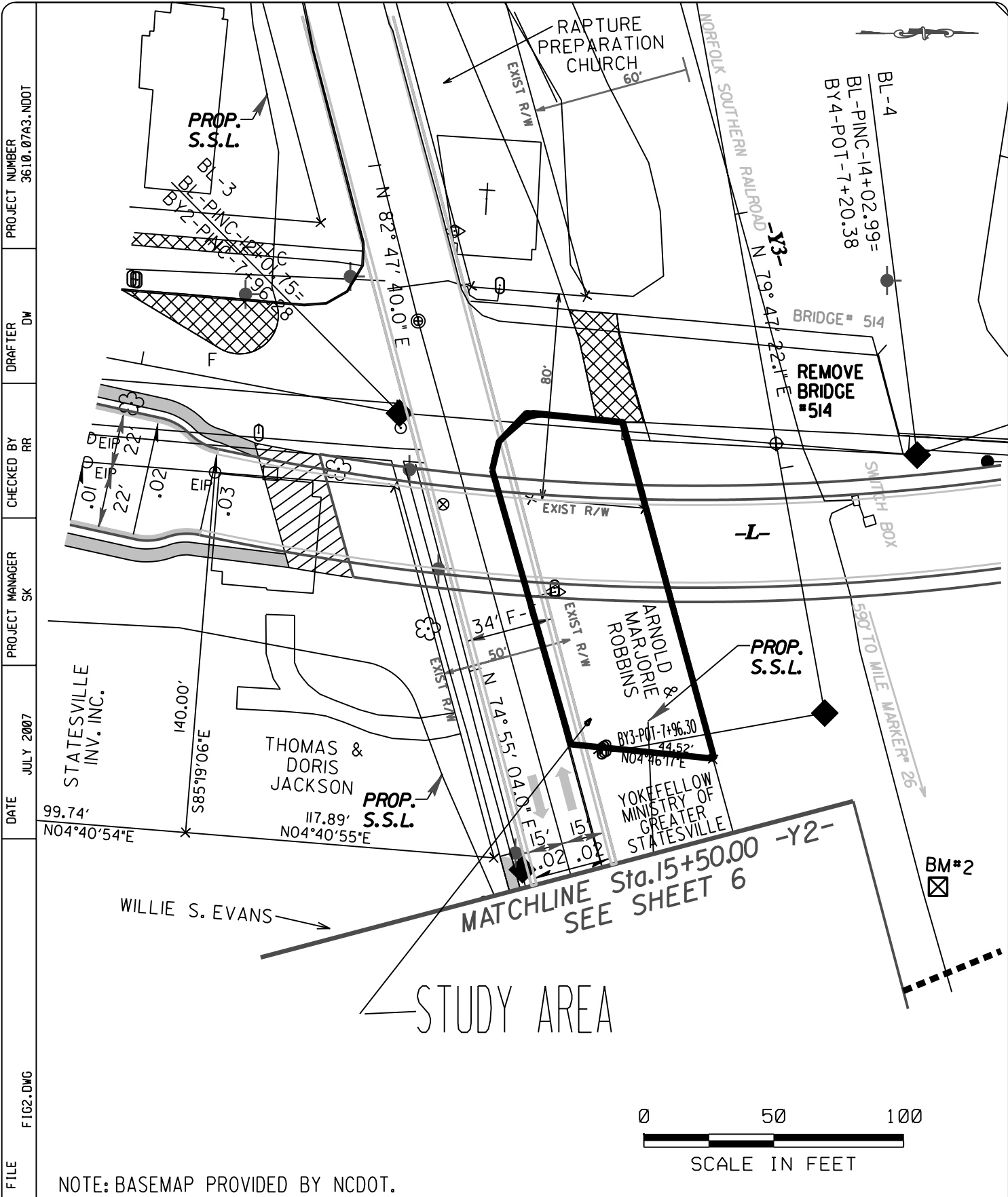


1:10,000

SITE LOCATION MAP
 ARNOLD ROBBINS PROPERTY
 801 WILSON LEE BLVD.
 STATESVILLE, NORTH CAROLINA
 WBS ELEMENT# 32669.1.1

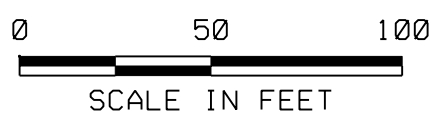


1101 Nowell Road, Raleigh, NC 27609 Phone (919) 873-1060, Fax (919) 873-1074	
Created by: DW	Project: 3610.07A3.NDOT
Checked by: RR	Date: JULY 2007
File: Figure 1.mxd	
Software: ESRI ArcMap 9.2	FIGURE 1



PROJECT NUMBER 3610.07A3.NDOT
 DRAFTER DW
 CHECKED BY RR
 PROJECT MANAGER SK
 DATE JULY 2007
 FILE FIG2.DWG

NOTE: BASEMAP PROVIDED BY NCDOT.



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SITE MAP
 ARNOLD ROBBINS PROPERTY
 801 WILSON LEE BLVD.
 STATESVILLE, NORTH CAROLINA
 WBS ELEMENT NO. 32669.1.1

FIGURE:
 2

PROJECT NUMBER
3610.07A3.NDOT

DRAFTER
DW

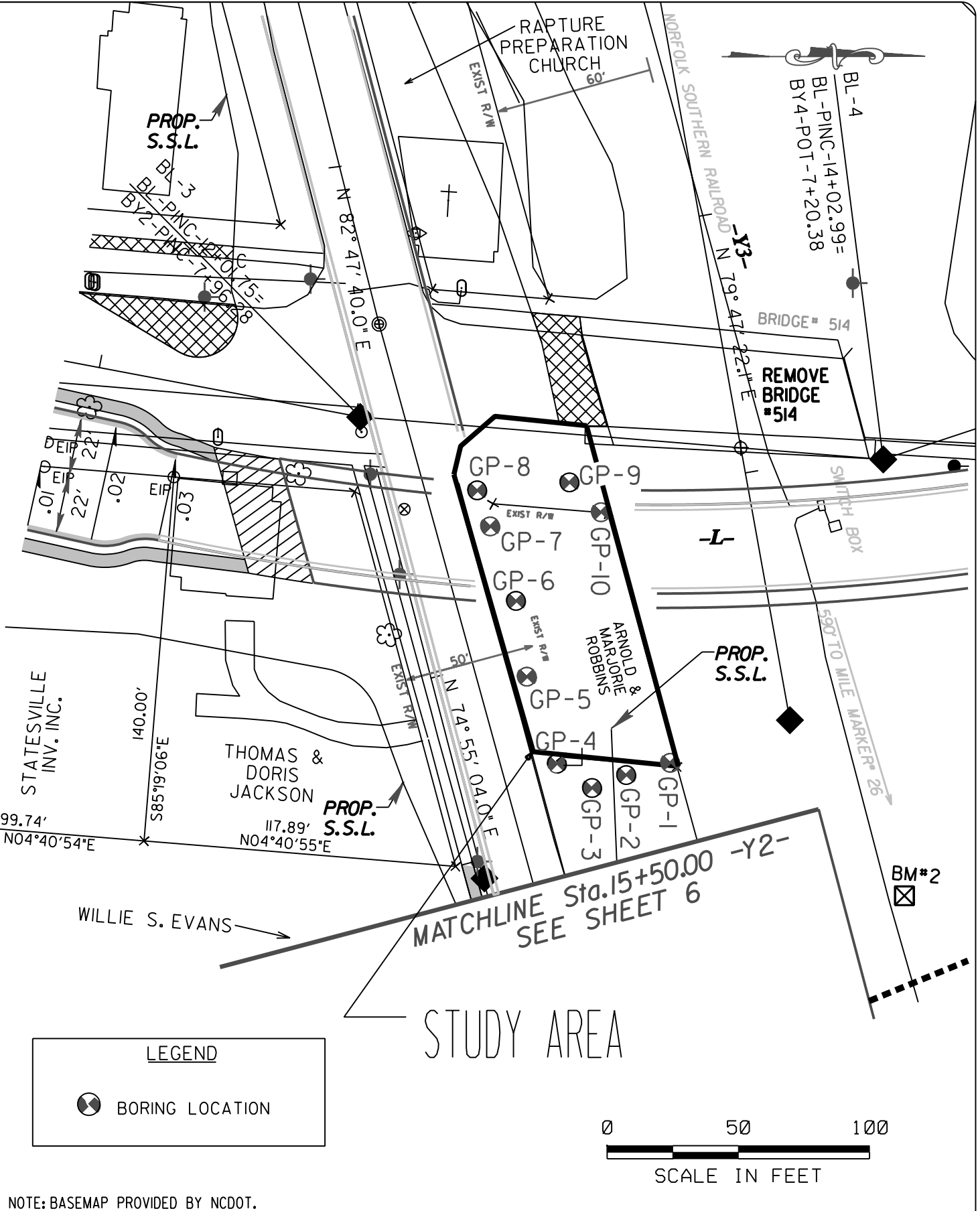
CHECKED BY
RR

PROJECT MANAGER
SK

DATE
JULY 2007

FIG. 3.DWG

FILE



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SOIL BORING LOCATIONS
 ARNOLD ROBBINS PROPERTY
 801 WILSON LEE BLVD.
 STATESVILLE, NORTH CAROLINA
 WBS ELEMENT NO. 32669.1.1

FIGURE:
3

APPENDIX A
PHOTOGRAPH



Photograph 1 – View of the west side of the vacant building on the Arnold Robbins property.

APPENDIX B
GEOPHYSICAL REPORT

GEOPHYSICAL INVESTIGATION REPORT

***GEOPHYSICAL SURVEYS FOR THE
DETECTION OF METALLIC USTS***

**James Hunter & Marjorie C. Robbins Properties
Statesville, North Carolina**

June 18, 2007

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Solutions-IES
GEOPHYSICAL SURVEYS FOR THE DETECTION OF METALLIC USTS
James Hunter & Marjorie C. Robbins Properties
Statesville, North Carolina

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Figure 1	Photographs of Geophysical Equipment & Survey Areas
Figure 2	Geophysical Survey Line Locations – Hunter Site
Figure 3	EM61 Bottom Coil Results – Hunter Site
Figure 4	EM61 Differential Results – Hunter Site
Figure 5	Geophysical Survey Line Locations – Robbins Site
Figure 6	EM61 Bottom Coil Results – Robbins Site
Figure 7	EM61 Differential Results – Robbins Site

1.0 INTRODUCTION

Pyramid Environmental & Engineering, PC conducted geophysical investigations for Solutions-IES on June 4-5, 2007, across the front portion of the James Hunter property and around the accessible portions of the Marjorie C. Robbins property. The Hunter property is located along the northwest corner of the Charlotte Street and Wilson Lee Boulevard intersection and the Robbins property is located along the northeast corner of the Asheville Avenue and Wilson Lee Boulevard intersection in Statesville, North Carolina. The work was done as part of a North Carolina Department of Transportation road-widening project (NCDOT WBS Element No. 32669.1.1). The geophysical surveys were conducted to determine if unknown metallic underground storage tanks (USTs) are present beneath the front portion of the Hunter site and the accessible portions of the Robbins site.

Solutions-IES representative Mr. Robert Rogero, PG provided information and a site map during the week of May 28, 2007 that outlined the geophysical survey area of each site.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigations, a 10-foot by 10-foot survey grid was established across the survey areas using water-based marking paint. These marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The EM surveys were performed using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 to 10 feet. Objects less than one foot in size can only be detected to a maximum depth of 4 or 5 feet. All of the EM61 data were digitally collected at the Hunter site along the X-axis (northerly-southerly trending) survey lines spaced 5 feet apart. The EM61 data were collected at the Robbins site along the X-axis or Y-axis survey lines spaced 5 feet apart. The EM61 data from both sites were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted across selected EM61 differential anomalies, steel-reinforced concrete and along the perimeter of the buildings at each site using a Geophysical Survey Systems SIR-2000 unit equipped with a 400 MHz antenna. GPR data were digitally collected in a continuous mode along the X-axis and/or Y-axis survey lines spaced 2.5 to 5 feet apart, using a vertical scan of 512 samples, at a sampling rate of 32 scans per second. An 80 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected to a maximum investigating depth of approximately 6 feet based on an estimated two-way travel time of 9 nanoseconds per foot.

The GPR data were downloaded to a computer and viewed in the field in real time and reviewed in the office using the Radan 5.0 software program. Photographs of the geophysical equipment used for the investigations and the survey areas are presented in **Figure 1**. The locations of the EM61 and GPR survey lines acquired across the Hunter site are shown as red dots and solid purple lines, respectively in **Figure 2**. The locations of the EM61 and GPR survey lines acquired across the Robbins site are shown as red dots and solid purple lines, respectively in **Figure 5**. Each individual red dot represents an EM61 data point. Due to the thick brush and debris present along portions of the Robbins site, GPR scanning (or reconnaissance) was conducted. These GPR reconnaissance areas are shown as dashed purple polygons in Figure 5.

3.0 DISCUSSION OF RESULTS

3.1 James Hunter Property

Contour plots of the EM61 bottom coil results and the EM61 differential results for the Hunter site are presented in **Figures 3 and 4**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger

metal objects such as drum and UST-size objects, and ignore the smaller insignificant metal debris/objects.

GPR surveys suggest the high amplitude EM61 bottom coil anomalies (contours shaded in red) centered near grid coordinates X=10 Y=37, X=27 Y=37 and X=35 Y=55 are probably in response to the building and/or steel reinforced concrete. GPR data also suggest that the linear EM61 anomalies centered near grid coordinates X=30 Y=16, X=65 Y=16 and X=65 Y=70 are probably in response to buried utility lines.

The EM61 differential results also show the anomalies that are probably in response to the building and utility lines. However, no other EM61 anomalies were recorded across the survey area suggesting that this portion of the Hunter site does not contain metallic USTs.

3.2 Marjorie C. Robbins Property

Contour plots of the EM61 bottom coil results and the EM61 differential results for the Robbins site are presented in **Figures 6 and 7**, respectively. GPR data suggest that the linear EM61 bottom coil anomalies centered near grid coordinates X=30 Y=28, X=35 Y=50, X=40 Y=64, X=50 Y=19, and X=90 Y=20 are probably in response to buried utility lines. GPR data also suggest that the high amplitude EM61 anomaly centered near grid coordinates X=55 Y=45 is probably in response to steel reinforced concrete and/or the building canopy

Similarly, the bottom coil anomalies centered near grid coordinates X=124 Y=22, X=135 Y=22 and X=156 Y=28 are probably in response to the building and stairs. The EM61 anomalies centered near X=154 Y=44 and X=154 Y=54 are probably in response to the metal support poles.

The EM61 differential results show several anomalies that are probably in response to steel reinforced concrete, the building or other known cultural features. No other differential anomalies were recorded suggesting that that the surveyed portion of the site does not contain metallic USTs.

4.0 SUMMARY & CONCLUSIONS

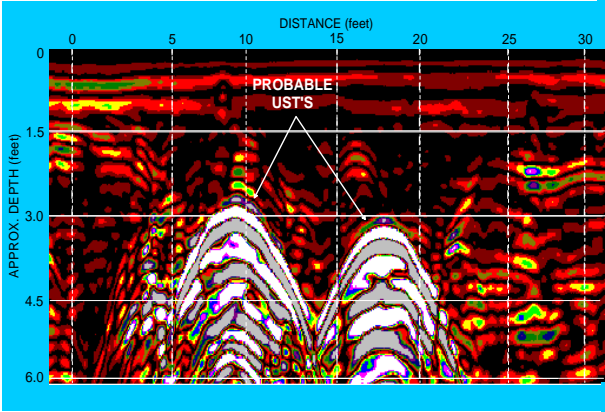
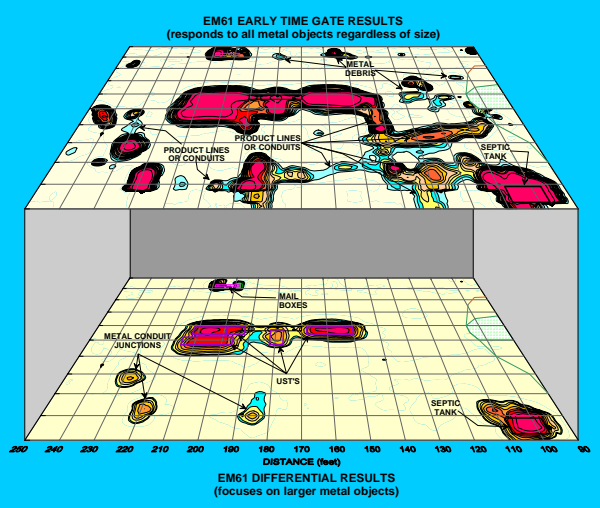
Our evaluation of the EM61 and GPR data collected across the surveyed portions of the James Hunter property and the Marjorie C. Robbins property located along Wilson Lee Boulevard in Statesville, North Carolina, provides the following summary and conclusions:

- The combination of EM61 and GPR surveys provided reliable results for the detection of metallic USTs and other buried metal objects within the depth interval of 0 to 8 feet.
- At the Hunter site, GPR surveys suggest the high amplitude EM61 bottom coil anomalies (contours shaded in red) centered near grid coordinates X=10 Y=37, X=27 Y=37 and X=35 Y=55 are probably in response to the building and/or steel reinforced concrete. GPR data also suggest that the linear EM61 anomalies centered near grid coordinates X=30 Y=16, X=65 Y=16 and X=65 Y=70 are probably in response to buried utility lines.
- At the Robbins site, GPR data suggest that the linear EM61 bottom coil anomalies centered near grid coordinates X=30 Y=28, X=35 Y=50, X=40 Y=64, X=50 Y=19, and X=90 Y=20 are probably in response to buried utility lines. The remaining EM61 anomalies are probably in response to known cultural features or steel reinforced concrete.
- The geophysical investigation conducted at the Hunter and Robbins sites suggest that the surveyed portions of the sites do not contain metallic USTs.

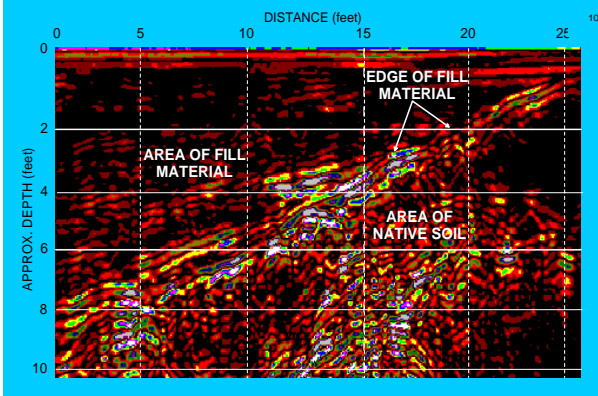
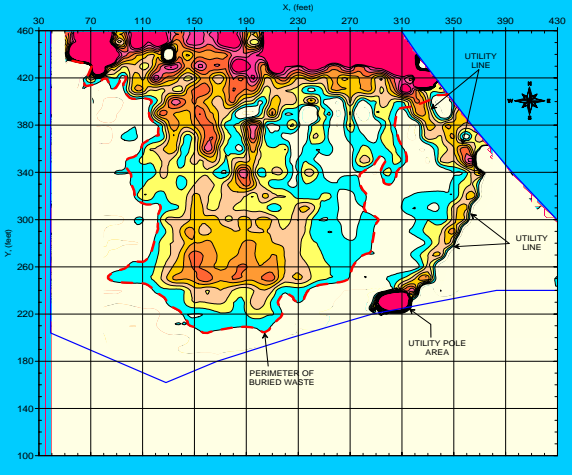
5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Solutions-IES in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the geophysical surveys are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project do not conclusively

determine that the surveyed portion of the site does not contain buried metallic USTs, but that none were detected. Some of the EM61 and GPR anomalies interpreted as probable or possible small, miscellaneous, metal objects/debris may be attributed to other surface or subsurface features and/or interference from cultural features.



Figures
(on following pages)



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at the Hunter and Robbins sites on June 4, 2007.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at the Hunter and Robbins sites on June 4 and 5, 2007.



The photograph shows a portion of the geophysical survey area located at the Hunter site. The photograph is viewed in a northwesterly direction.



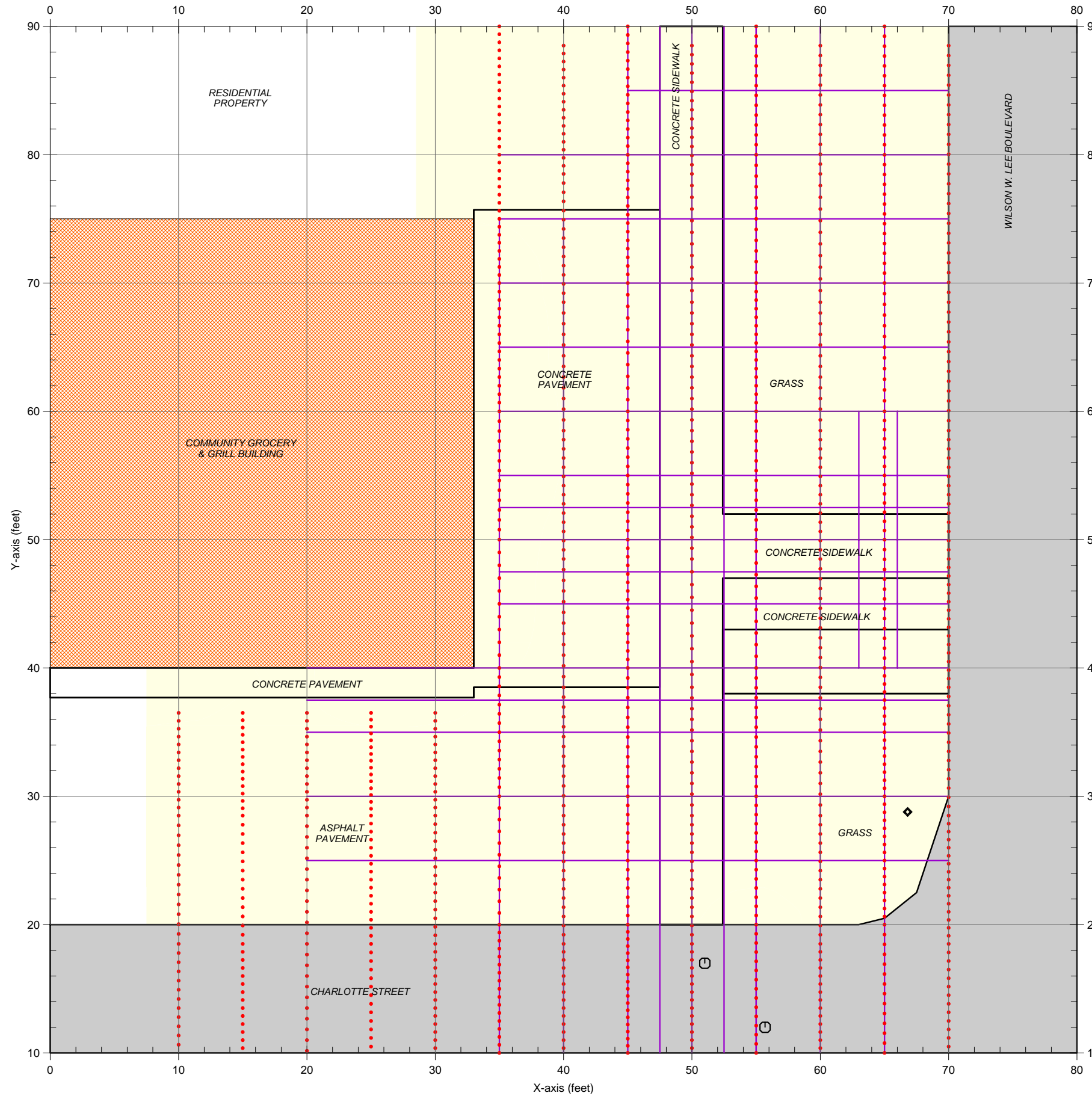
The photograph shows a portion of the geophysical survey area located at the Robbins site. The photograph is viewed in a northeasterly direction.



CLIENT	SOLUTIONS-IES				DATE	06/18/07	BY	MJD
PROJECT	HUNTER & ROBBINS SITES				LAY		OPND	
CITY	STATESVILLE	STATE	NORTH CAROLINA		ENG		PROJ	
TITLE	GEOPHYSICAL RESULTS				NO	2007-153	PROJ	

PHOTOGRAPHS OF
GEOPHYSICAL EQUIPMENT
& SURVEY AREAS

FIGURE 1



LEGEND

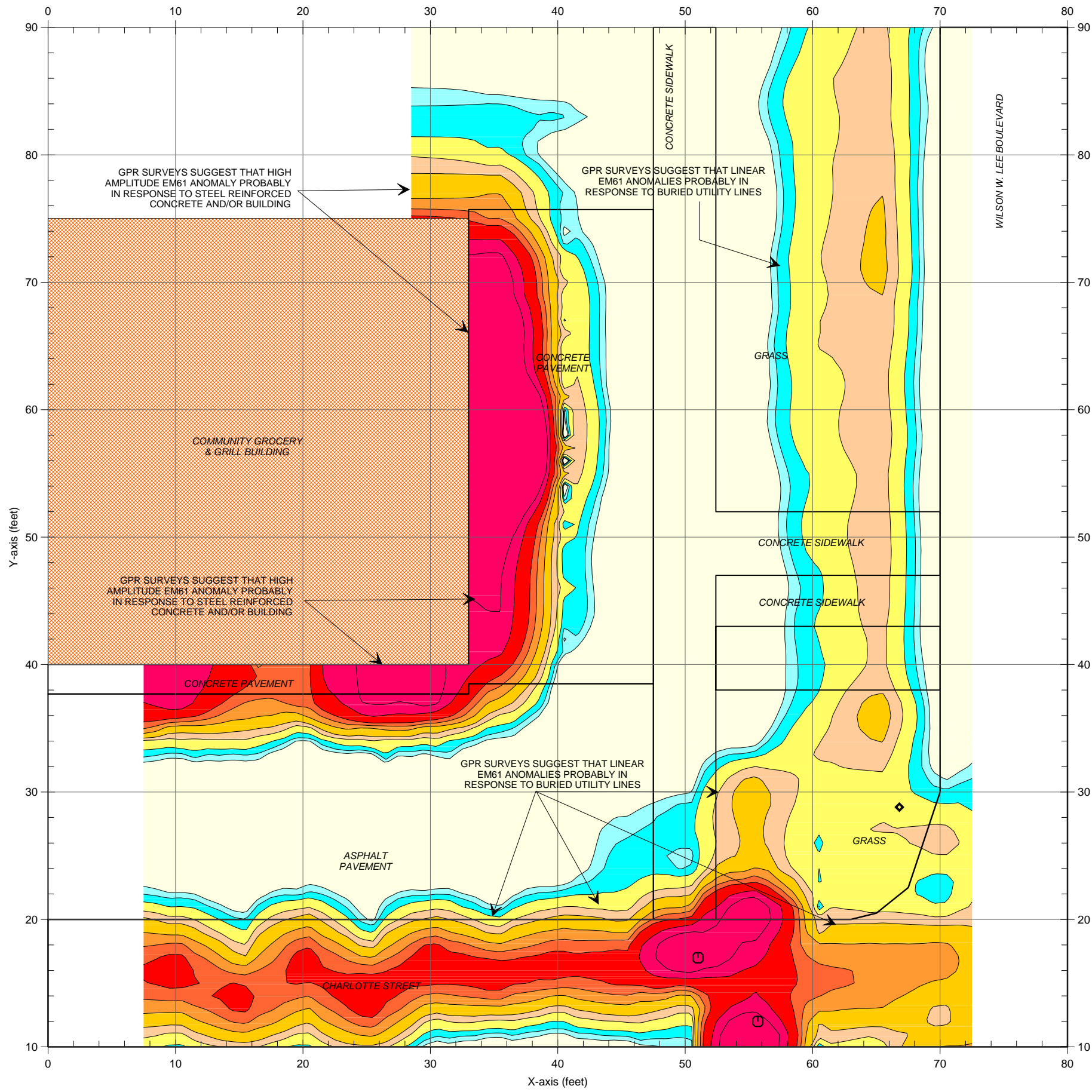
- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
- WATER METER COVER
- STREET MONUMENT
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE

Note: The map shows the geophysical survey area at the Hunter site. The red dots represent the EM61 survey lines that were acquired on June 4, 2007 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were also acquired on June 4, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

GEOPHYSICAL SURVEY LINE LOCATIONS

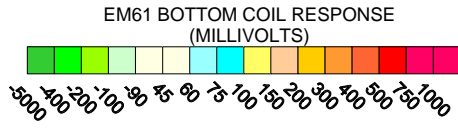
FIGURE 2

GRAPHIC SCALE IN FEET		MJD		FIGURE	
DATE	LAY	DWG	L-NO.	DATE	FIGURE
06/18/07			2007-153		
SOLUTIONS - IES			NORTH CAROLINA		
JAMES HUNTER PROPERTY			STATESVILLE		
GEOPHYSICAL RESULTS					



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
- WATER METER COVER
- STREET MONUMENT



Note: The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 4, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were also acquired on June 4, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

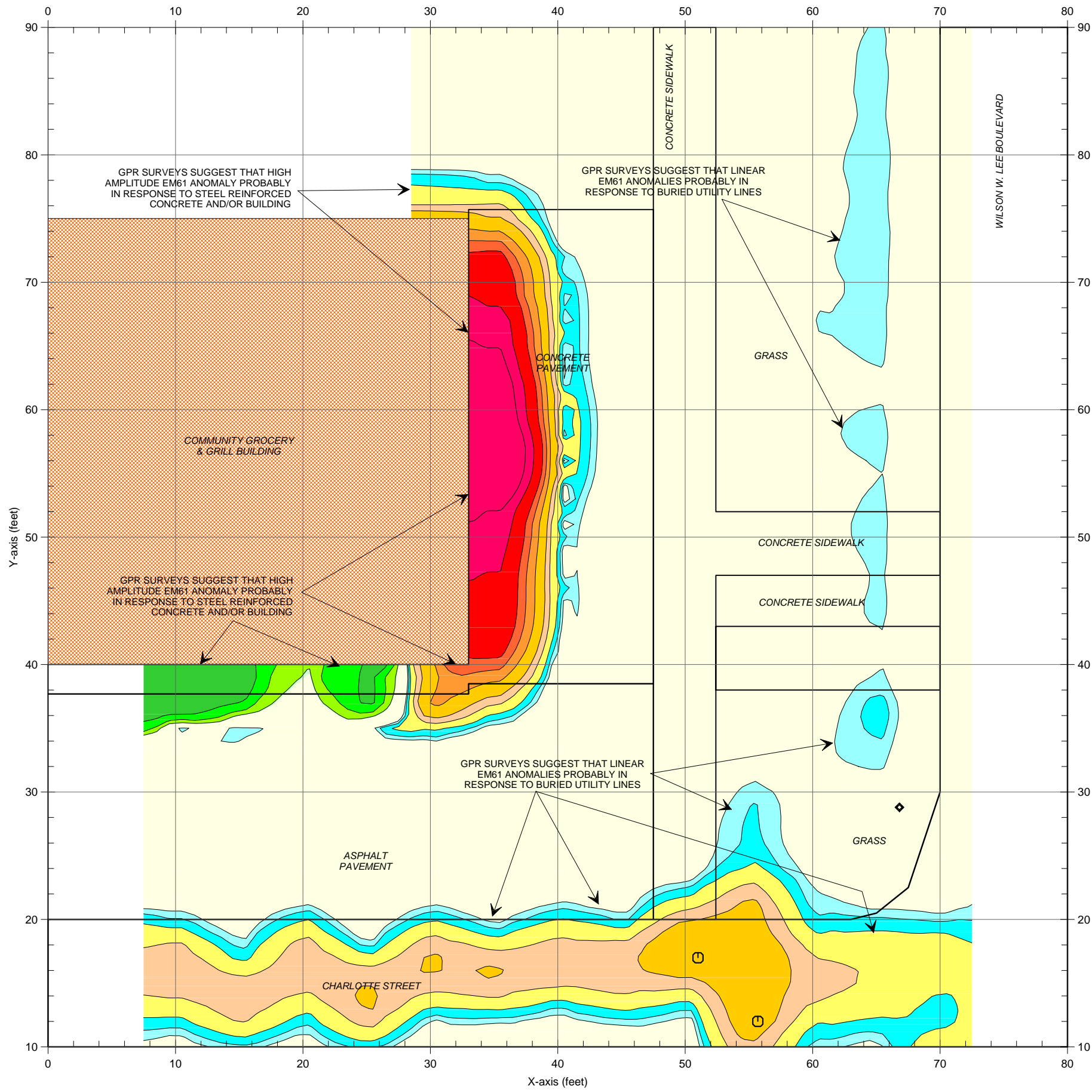
The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.

EM61
BOTTOM COIL
RESULTS

FIGURE 3

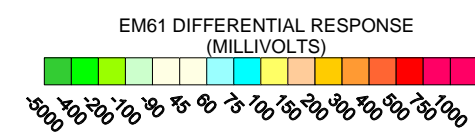
DATE	06/18/07	DRWN	MJD	FIGURE	2007-153
LAYER		CH/KD			
DWG					
SOLUTIONS - IES		JAMES HUNTER PROPERTY		NORTH CAROLINA	
STATESVILLE				GEOPHYSICAL RESULTS	
CLIENT	SITE	CITY	STATE	TITLE	

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
- WATER METER COVER
- STREET MONUMENT



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and UST's and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on June 4, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were also acquired on June 4, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

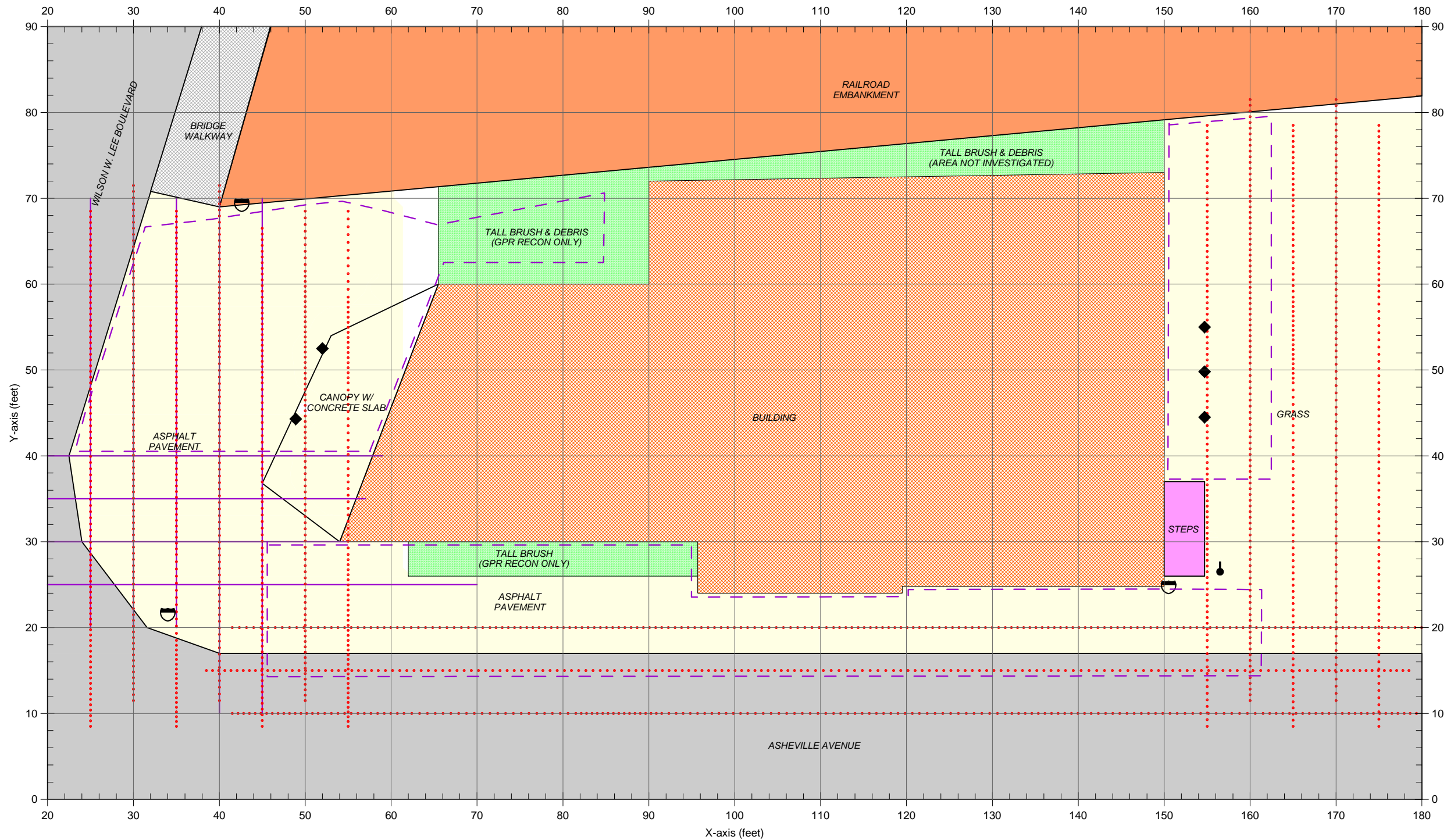
The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.

EM61 DIFFERENTIAL RESULTS

FIGURE 4

DATE	06/18/07	DRWN	MJD	FIGURE	2007-153
LAY		CH KD			
DWG					
SOLUTIONS - IES		JAMES HUNTER PROPERTY		NORTH CAROLINA	
STATESVILLE				GEOPHYSICAL RESULTS	
CLIENT	SITE	CITY	STATE	TITLE	

PYRAMID
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LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY OR EASTERLY-WESTERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
- SIGN
- METAL SUPPORT POLE
- UTILITY POLE
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE
- AREA SCANNED BY GPR



Note: The map shows the geophysical survey area at the Robbins site. The red dots represent the EM61 survey lines that were acquired on June 4, 2007 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were acquired on June 5, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna. The dashed purple polygons represent the areas that were scanned with the GPR instrument.

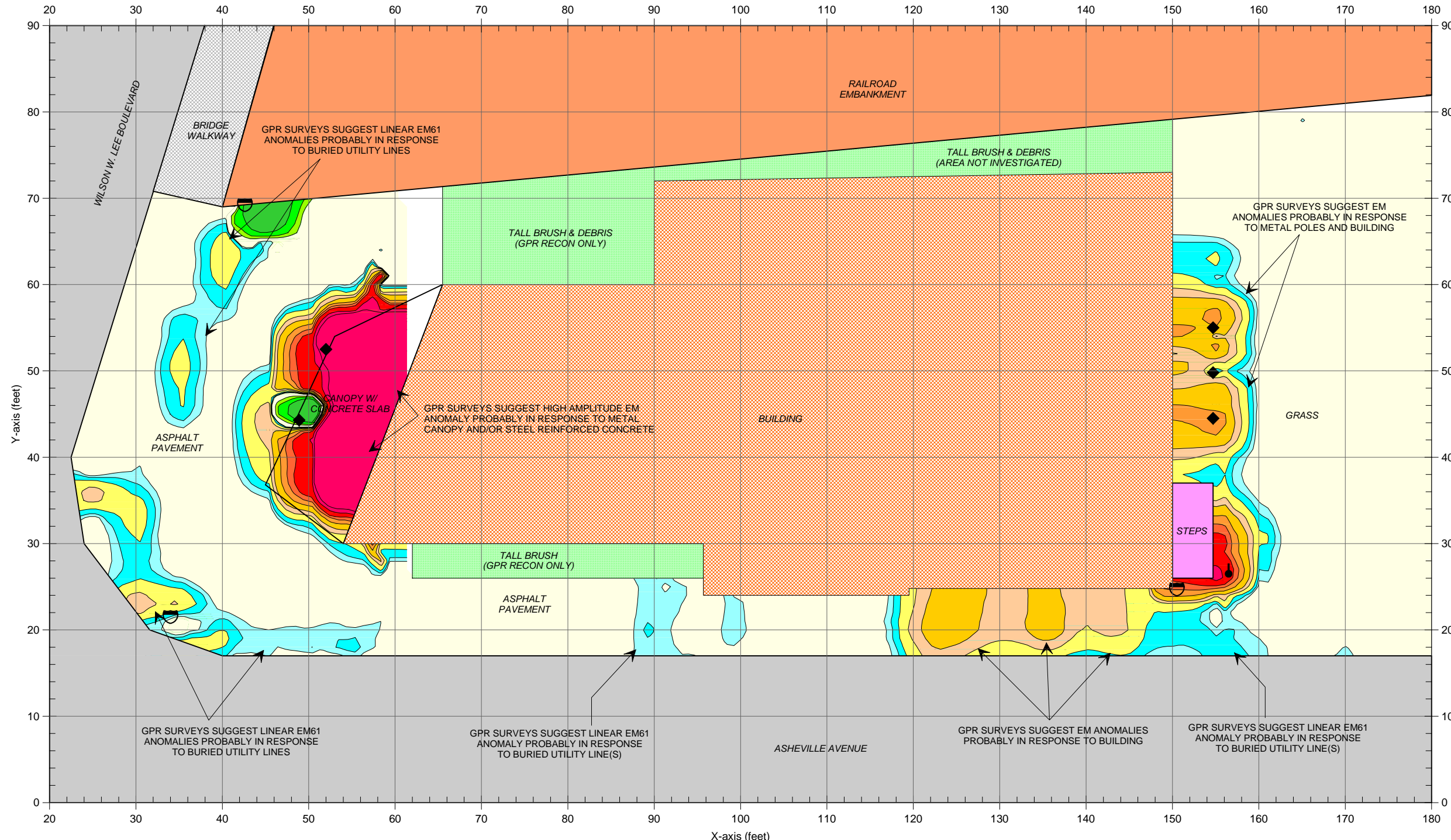
GEOPHYSICAL SURVEY LINE LOCATIONS

FIGURE 5

CLIENT	SOLUTIONS - IES	DATE	06/18/07	DRAWN	MJD	FIGURE	2007-153
SITE	MARJORIE C. ROBBINS PROPERTY	LAY		CHKD			
CITY	STATESVILLE	DWG					
STATE	NORTH CAROLINA						
TITLE	GEOPHYSICAL RESULTS						

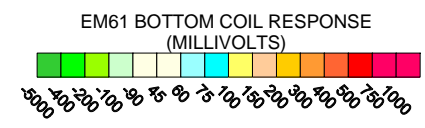
GRAPHIC SCALE IN FEET





LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY OR EASTERLY-WESTERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
- SIGN
- METAL SUPPORT POLE
- UTILITY POLE



Note: The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 4, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 5, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

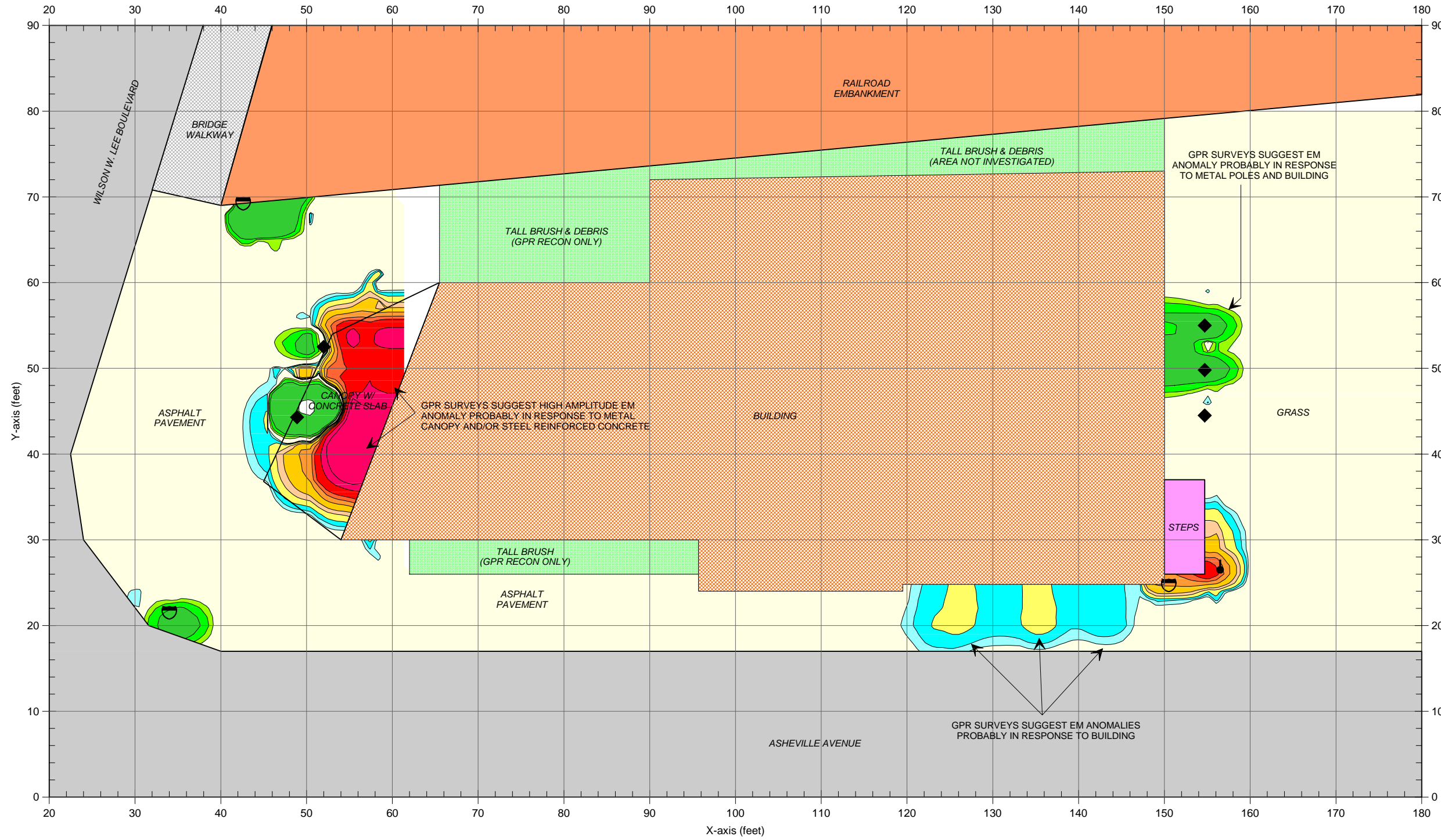
The geophysical investigation suggests that the surveyed portion of the site does not contain metallic USTs.

**EM61
BOTTOM COIL
RESULTS**

FIGURE 6

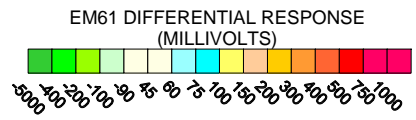
CLIENT	SOLUTIONS - IES	DATE	06/18/07	DRAWN	MJD	FIGURE	2007-153
SITE	MARJORIE C. ROBBINS PROPERTY	LAY		CHKD			
CITY	STATESVILLE	DWG					
STATE	NORTH CAROLINA						
TITLE	GEOPHYSICAL RESULTS						

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



LEGEND

	SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY OR EASTERLY-WESTERLY TRENDING PARALLEL LINES SPACED 5 FEET APART
	SIGN
	METAL SUPPORT POLE
	UTILITY POLE



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and UST's and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on June 4, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 5, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portion of the site does not contain metallic USTs.

FIGURE 7

EM61 DIFFERENTIAL RESULTS

GRAPHIC SCALE IN FEET	
CLIENT	MJD
SITE	DRWN
CITY	CHKD
STATE	DATE
TITLE	FIGURE
SOLUTIONS - IES	
MARJORIE C. ROBBINS PROPERTY	
STATESVILLE NORTH CAROLINA	
GEOPHYSICAL RESULTS	
L-NO.	2007-153
DWG.	
LAY.	
DATE	06/18/07
FIGURE	



APPENDIX C

GPS COORDINATES

Boring Location GPS Coordinates
Arnold Robbins Property
801 Wilson Lee Boulevard
Statesville, Iredell County, North Carolina

	Latitude	Longitude
GP-1	35.77457746	-80.89027899
GP-2	35.77457914	-80.89027933
GP-3	35.77455148	-80.89027229
GP-4	35.7744965	-80.89025787
GP-5	35.77445542	-80.89029936
GP-6	35.77442491	-80.89038586
GP-7	35.77439357	-80.89048527
GP-8	35.77437119	-80.89059348
GP-9	35.77440103	-80.89065308
GP-10	35.77442961	-80.8906519

APPENDIX D

BORING LOGS

Log of Soil Boring: GP-1

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-1

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	FID Field Screen											
					ppm											
					1	2	3	4	5	6	7	8	9			
					ppm											
					1	2	3	4	5	6	7	8	9			
0		Ground Surface														
1	ML	Dry, red, clayey silt		100%	0											
2	ML	Dry, red and brown, clayey silt		100%	0											
3																
4	CL	Dry, red and orange, silty clay		100%	1											
5																
6	CL	Dry, red, orange, and tan, silty clay		100%	2											
7																
8	CL	Dry, red, orange, and tan, silty clay with some gravel		100%	3											
9																
10	CL	Dry, red and orange, silty clay		100%	3											
11	CL	Dry, red and orange, silty, sandy clay														
12																
13																
14																
15																
16																

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Log of Soil Boring: GP-2

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-2

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data		
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	FID Field Screen												
					ppm 1 2 3 4 5 6 7 8 9 ppm 1 2 3 4 5 6 7 8 9												
0		Ground Surface															
0	ML	Dry, red, clayey silt			1												
1																	
2	ML	Dry, brown, sandy, clayey silt		100%	0												
3	CL	Dry, red, silty, sandy clay															
4																	
5	ML	Dry, red, clayey silt			2												
6				100%													
7					2												
8	ML	Dry, red and yellow, clayey silt															
9					3												
10				100%													
11					3												
12																	
13																	
14																	
15																	
16																	

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Log of Soil Boring: GP-3

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-3

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm											
					FID Field Screen											
					1	2	3	4	5	6	7	8	9			
0		Ground Surface														
0-1	SM	Dry, tan and brown, sandy silt				2										
1-2	ML	Dry, red and brown, clayey silt		100%		3										
2-4	ML	Dry, red and orange, clayey silt														
4-6	ML	Dry, red, orange and yellow, clayey silt		100%		3										
6-7	ML	Dry, red, orange and yellow, clayey silt														
7-9	ML	Dry, red, orange and yellow, clayey silt														
9-10	CL	Dry, red and brown, silty clay with some gravel														
10-11	ML	Dry, yellow and orange, mottled clayey silt		100%		3										
11-12																
12-13																
13-14																
14-15																
15-16																

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Log of Soil Boring: GP-4

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-4

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	FID Field Screen											
					ppm											
					1	2	3	4	5	6	7	8	9			
					ppm											
					1	2	3	4	5	6	7	8	9			
0		Ground Surface														
		Asphalt														
1	SC	Damp, dark brown and brown, fine clayey sand		100%	1											
2	CL	Dry, red silty clay		100%	1											
3																
4	CL	Dry, red and yellow silty clay		100%	0											
5																
6																
7																
8																
9	SM	Dry, yellow, orange and red, sandy, clayey silt		100%	0											
10	ML	Dry, red and yellow, mottled clayey silt		100%	0											
11																
12																
13																
14																
15																
16																

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Log of Soil Boring: GP-5

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-5

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm			ppm			ppm					
					1	2	3	4	5	6	7	8	9			
0		Ground Surface														
0		Asphalt														
0		SC														
0		Damp, dark brown and brown, fine clayey sand														
2		CL		100%												
2		Dry, red, silty clay (quartz at 3.0' bgs)														
4		ML														
4		Dry, red and yellow, clayey silt														
6				100%												
7																
9		ML														
9		Dry, red, orange and yellow, sandy, clayey silt with some gravel														
10				100%												
11		ML														
11		Dry, red, orange, yellow, and white. clayey silt														
12																
13																
14																
15																
16																

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Log of Soil Boring: GP-6

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-6

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm											
					FID Field Screen											
					ppm											
					1	2	3	4	5	6	7	8	9			
					1	2	3	4	5	6	7	8	9			
0		Ground Surface														
0		Asphalt														
0		SC														
0		Dry, dark brown, clayey sand with gravel														
1		ML														
1		Dry, brown and red, sandy, clayey silt		100%												
2		CL														
2		Dry, brown and black, sandy clay														
3		CL														
3		Dry, red and yellow, silty clay														
4		CL														
4		Dry, red and yellow, silty clay with some gravel		100%												
5		CL														
5		Dry, red and dark brown, silty clay														
6		ML														
6		Dry, orange, tan and white, clayey silt		100%												
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																

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Log of Soil Boring: GP-7

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-7

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/18/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data			
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm 1 2 3 4 5 6 7 8 9 FID Field Screen ppm 1 2 3 4 5 6 7 8 9													
0		Ground Surface																
0	Asphalt																	
1	SC	Dry, brown and red, clayey sand		100%	0													
2	CL	Dry, red, silty clay		100%	0													
3																		
4																		
5	CL	Dry, red, silty clay with some gravel		100%	0													
6	ML	Dry, red, clayey silt		100%	0													
7																		
8																		
9	SM	Dry, yellow, orange and white, sandy silt		100%	1													
10					0													
11					0													
12																		
13																		
14																		
15																		
16																		

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Log of Soil Boring: GP-8

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-8

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data	
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	FID Field Screen											
					<div style="display: flex; justify-content: space-between;"> • ppm • </div> <div style="display: flex; justify-content: space-between;"> 1 2 3 4 5 6 7 8 9 </div> <div style="display: flex; justify-content: space-between;"> ■ ppm ■ </div> <div style="display: flex; justify-content: space-between;"> 1 2 3 4 5 6 7 8 9 </div>											
0		Ground Surface														
1	SM	Concrete Dry, light brown, sandy silt		0												
2	ML	Dry, red and brown, clayey silt		100%												
3				0												
4				0												
5	ML	Dry, red, clayey silt		100%												
6				0												
7				0												
8				0												
9	ML	Dry, red and yellow, mottled clayey silt		100%												
10				0												
11	ML	Dry, red, yellow, and orange, with some white, clayey silt		100%												
12				0												
13				0												
14				0												
15				0												
16				0												

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Log of Soil Boring: GP-9

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-9

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen		Lab Sample Depth	Well Data										
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm													
					FID Field Screen													
					ppm													
					1 2 3 4 5 6 7 8 9													
0		Ground Surface																
	Asphalt																	
1	ML	Dry, dark brown, clayey silt			0													
2	ML	Dry, red and tan, clayey silt		100%	0													
3																		
4	ML	Dry, red, clayey silt			0													
5	ML	Dry, red and yellow, mottled clayey silt			0													
6				100%	0													
7					0													
8					0													
9					0													
10	ML	Dry, red, yellow, and orange, mottled clayey silt		100%	0													
11					0													
12																		
13																		
14																		
15																		
16																		

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Log of Soil Boring: GP-10

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-10

Client: NCDOT

WBS # 32669.1.1

Initial Water Level: N/A

State Project # B-2576

County: Iredell

Stabilized Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Cave In Depth: N/A

Sampler Type: MC

Logged By: SKJ

Checked By: SK/RPR

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen									Lab Sample Depth	Well Data					
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm 1 2 3 4 5 6 7 8 9 FID Field Screen ppm 1 2 3 4 5 6 7 8 9															
0		Ground Surface																		
1	SM	Dry, light brown, sandy silt			0															
2	ML	Dry, brown and tan, clayey, sandy silt		100%	0															
3	ML	Dry, red, clayey silt			0															
4					0															
5					0															
6	ML	Dry, red and yellow, mottled clayey silt		100%	0															
7					0															
8	SM	Dry, dark brown and red, sandy silt			0															
9	ML	Dry, red and yellow, mottled clayey silt			0															
10				100%	0															
11					0															
12																				
13																				
14																				
15																				
16																				

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APPENDIX E

LABORATORY ANALYTICAL REPORT
(Combined: James Hunter and Arnold Robbins Properties)

July 05, 2007

Mr. Brian Rebar
Solutions-IES
1101 Nowell Road
Raleigh, NC 27607

RE: Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Dear Mr. Rebar:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

The results relate only to samples in this report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,



Bonnie McKee
bonnie.mckee@pacelabs.com
(704) 875-9092 ext. 234
Project Manager

Enclosures

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Solid results are reported on a dry weight basis

Lab Sample No: 928540129 Project Sample Number: 92147161-001 Date Collected: 06/18/07 12:35
Client Sample ID: GP-1-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	20.7	%		06/26/07 11:17	TNM			

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.3	06/28/07 16:18	CAH	68334-30-5		
n-Pentacosane (S)	88	%		06/28/07 16:18	CAH	629-99-2		
Date Extracted	06/25/07			06/25/07				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.8	06/29/07 03:14	DHW	8006-61-9		
4-Bromofluorobenzene (S)	84	%		06/29/07 03:14	DHW	460-00-4		

Date: 07/05/07

Page: 1 of 26

Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540145 Project Sample Number: 92147161-002 Date Collected: 06/18/07 13:00
Client Sample ID: GP-2-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	26.7	%		06/26/07 11:18	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.8	06/28/07 16:45	CAH	68334-30-5		
n-Pentacosane (S)	78	%		06/28/07 16:45	CAH	629-99-2		
Date Extracted	06/25/07			06/25/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.4	06/26/07 18:23	DHW	8006-61-9		
4-Bromofluorobenzene (S)	87	%		06/26/07 18:23	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540152 Project Sample Number: 92147161-003 Date Collected: 06/18/07 13:50
Client Sample ID: GP-3-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	24.4	%		06/26/07 11:18	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.6	07/03/07 11:57	CAH	68334-30-5		
n-Pentacosane (S)	101	%		07/03/07 11:57	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.9	06/26/07 03:42	DHW	8006-61-9		
4-Bromofluorobenzene (S)	106	%		06/26/07 03:42	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540160 Project Sample Number: 92147161-004 Date Collected: 06/18/07 14:35
Client Sample ID: GP-4-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	17.3	%		06/26/07 11:19	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	61.	mg/kg	6.0	07/03/07 12:23	CAH	68334-30-5		
n-Pentacosane (S)	78	%		07/03/07 12:23	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	06/26/07 04:08	DHW	8006-61-9		
4-Bromofluorobenzene (S)	85	%		06/26/07 04:08	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540186 Project Sample Number: 92147161-005 Date Collected: 06/18/07 15:40
Client Sample ID: GP-5-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	18.8	%		06/26/07 11:19	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.2	07/03/07 12:50	CAH	68334-30-5		
n-Pentacosane (S)	84	%		07/03/07 12:50	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.1	06/26/07 05:25	DHW	8006-61-9		
4-Bromofluorobenzene (S)	97	%		06/26/07 05:25	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540194 Project Sample Number: 92147161-006 Date Collected: 06/18/07 16:30
Client Sample ID: GP-6-8-10 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	18.5	%		06/26/07 11:26	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	22.	mg/kg	6.1	07/04/07 12:02	CAH	68334-30-5		
n-Pentacosane (S)	67	%		07/04/07 12:02	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.4	06/26/07 05:51	DHW	8006-61-9		
4-Bromofluorobenzene (S)	92	%		06/26/07 05:51	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540202 Project Sample Number: 92147161-007 Date Collected: 06/18/07 17:15
Client Sample ID: GP-7-8-10 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	10.6	%		06/26/07 11:27	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	30.	mg/kg	5.6	07/03/07 13:43	CAH	68334-30-5		
n-Pentacosane (S)	111	%		07/03/07 13:43	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.7	06/26/07 06:17	DHW	8006-61-9		
4-Bromofluorobenzene (S)	94	%		06/26/07 06:17	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540210 Project Sample Number: 92147161-008 Date Collected: 06/19/07 08:05
Client Sample ID: GP-8-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.1	%		06/26/07 11:28	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	07/03/07 14:10	CAH	68334-30-5		
n-Pentacosane (S)	92	%		07/03/07 14:10	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.4	06/26/07 06:42	DHW	8006-61-9		
4-Bromofluorobenzene (S)	91	%		06/26/07 06:42	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540228 Project Sample Number: 92147161-009 Date Collected: 06/19/07 08:50
Client Sample ID: GP-9-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.2	%		06/26/07 11:28	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	07/04/07 12:29	CAH	68334-30-5		
n-Pentacosane (S)	84	%		07/04/07 12:29	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.0	06/26/07 07:09	DHW	8006-61-9		
4-Bromofluorobenzene (S)	90	%		06/26/07 07:09	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540236 Project Sample Number: 92147161-010 Date Collected: 06/19/07 09:45
Client Sample ID: GP-10-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.1	%		06/26/07 11:28	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.9	07/03/07 16:03	CAH	68334-30-5		
n-Pentacosane (S)	89	%		07/03/07 16:03	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.8	06/27/07 03:54	DHW	8006-61-9		
4-Bromofluorobenzene (S)	89	%		06/27/07 03:54	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540244 Project Sample Number: 92147161-011 Date Collected: 06/19/07 11:30
Client Sample ID: GP-11-10-12 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.5	%		06/26/07 11:28	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.9	07/03/07 17:03	CAH	68334-30-5		
n-Pentacosane (S)	81	%		07/03/07 17:03	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.0	06/27/07 04:46	DHW	8006-61-9		
4-Bromofluorobenzene (S)	86	%		06/27/07 04:46	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540251 Project Sample Number: 92147161-012 Date Collected: 06/19/07 12:15
Client Sample ID: GP-12-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	14.7	%		06/26/07 11:28	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.9	07/03/07 17:32	CAH	68334-30-5		
n-Pentacosane (S)	83	%		07/03/07 17:32	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.9	06/27/07 05:37	DHW	8006-61-9		
4-Bromofluorobenzene (S)	87	%		06/27/07 05:37	DHW	460-00-4		

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540269 Project Sample Number: 92147161-013 Date Collected: 06/19/07 12:35
Client Sample ID: GP-13-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	14.5	%		06/26/07 11:29	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.8	07/03/07 17:59	CAH	68334-30-5		
n-Pentacosane (S)	74	%		07/03/07 17:59	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.2	06/27/07 06:03	DHW	8006-61-9		
4-Bromofluorobenzene (S)	84	%		06/27/07 06:03	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540277 Project Sample Number: 92147161-014 Date Collected: 06/19/07 13:45
Client Sample ID: GP-14-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	11.2	%		06/26/07 11:29	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	50.	mg/kg	5.6	07/03/07 18:25	CAH	68334-30-5		
n-Pentacosane (S)	106	%		07/03/07 18:25	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.7	06/27/07 06:29	DHW	8006-61-9		
4-Bromofluorobenzene (S)	86	%		06/27/07 06:29	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540285 Project Sample Number: 92147161-015 Date Collected: 06/19/07 14:25
Client Sample ID: GP-15-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.3	%		06/26/07 11:29	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.7	07/03/07 18:52	CAH	68334-30-5		
n-Pentacosane (S)	88	%		07/03/07 18:52	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.0	06/27/07 06:55	DHW	8006-61-9		
4-Bromofluorobenzene (S)	85	%		06/27/07 06:55	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540293 Project Sample Number: 92147161-016 Date Collected: 06/19/07 15:00
Client Sample ID: GP-16-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	21.4	%		06/26/07 11:30	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	07/03/07 19:19	CAH	68334-30-5		
n-Pentacosane (S)	85	%		07/03/07 19:19	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.0	06/27/07 07:22	DHW	8006-61-9		
4-Bromofluorobenzene (S)	84	%		06/27/07 07:22	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540301 Project Sample Number: 92147161-017 Date Collected: 06/19/07 15:20
Client Sample ID: GP-17-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.8	%		06/26/07 11:30	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.7	07/03/07 19:46	CAH	68334-30-5		
n-Pentacosane (S)	93	%		07/03/07 19:46	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.1	06/27/07 07:48	DHW	8006-61-9		
4-Bromofluorobenzene (S)	84	%		06/27/07 07:48	DHW	460-00-4		

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Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

Lab Sample No: 928540319 Project Sample Number: 92147161-018 Date Collected: 06/19/07 16:05
Client Sample ID: GP-18-6-8 Matrix: Soil Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	19.6	%		06/26/07 11:30	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.2	07/03/07 20:13	CAH	68334-30-5		
n-Pentacosane (S)	74	%		07/03/07 20:13	CAH	629-99-2		
Date Extracted	06/26/07			06/26/07				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.4	06/27/07 08:14	DHW	8006-61-9		
4-Bromofluorobenzene (S)	85	%		06/27/07 08:14	DHW	460-00-4		

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Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

QUALITY CONTROL DATA

Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QC Batch: 192440	Analysis Method: EPA 8015				
QC Batch Method: EPA 3545	Analysis Description: TPH in Soil by 3545/8015				
Associated Lab Samples:	928540152	928540160	928540186	928540194	928540202
	928540210	928540228	928540236	928540244	928540251
	928540269	928540277	928540285	928540293	928540301
	928540319				

METHOD BLANK: 928556109

Associated Lab Samples:	928540152	928540160	928540186	928540194	928540202	928540210	928540228
	928540236	928540244	928540251	928540269	928540277	928540285	928540293
	928540301	928540319					

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	95		

LABORATORY CONTROL SAMPLE: 928556117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	175.0	105	
n-Pentacosane (S)				105	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928556125 928556133

Parameter	Units	928540327 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	4.826	189.00	169.4	141.5	87	72	18	
n-Pentacosane (S)						87	76		

QUALITY CONTROL DATA

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QC Batch: 192367	Analysis Method: EPA 8015				
QC Batch Method: EPA 8015	Analysis Description: GAS, Soil, North Carolina				
Associated Lab Samples:	928540129	928540145	928540152	928540160	928540186
	928540194	928540202	928540210	928540228	

METHOD BLANK: 928554609

Associated Lab Samples:	928540129	928540145	928540152	928540160	928540186	928540194	928540202
	928540210	928540228					

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	90		

LABORATORY CONTROL SAMPLE: 928554617

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	25.00	31.75	127	
4-Bromofluorobenzene (S)				95	

MATRIX SPIKE: 928554625

<u>Parameter</u>	<u>Units</u>	<u>928548544 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	1.828	25.01	34.93	132	
4-Bromofluorobenzene (S)					89	

SAMPLE DUPLICATE: 928554633

<u>Parameter</u>	<u>Units</u>	<u>928548346 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
Gasoline	mg/kg	4000	4600	15	
4-Bromofluorobenzene (S)	%	100	104		

QUALITY CONTROL DATA

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QC Batch: 192497	Analysis Method: EPA 8015				
QC Batch Method: EPA 8015	Analysis Description: GAS, Soil, North Carolina				
Associated Lab Samples:	928540236	928540244	928540251	928540269	928540277
	928540285	928540293	928540301	928540319	

METHOD BLANK: 928558428

Associated Lab Samples:	928540236	928540244	928540251	928540269	928540277	928540285	928540293
	928540301	928540319					

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	83		

LABORATORY CONTROL SAMPLE: 928558436

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	25.00	33.00	132	
4-Bromofluorobenzene (S)				95	

MATRIX SPIKE: 928558444

<u>Parameter</u>	<u>Units</u>	<u>928540236 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	2.758	29.04	39.14	125	
4-Bromofluorobenzene (S)					87	

SAMPLE DUPLICATE: 928558451

<u>Parameter</u>	<u>Units</u>	<u>928540244 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	86	84		

QUALITY CONTROL DATA

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QC Batch: 192422	Analysis Method: % Moisture				
QC Batch Method:	Analysis Description: Percent Moisture				
Associated Lab Samples:	928540129	928540145	928540152	928540160	928540186

SAMPLE DUPLICATE: 928555994

<u>Parameter</u>	<u>Units</u>	928546415 <u>Result</u>	DUP <u>Result</u>	<u>RPD</u>	<u>Footnotes</u>
Percent Moisture	%	29.50	28.30	4	

QUALITY CONTROL DATA

Lab Project Number: 92147161
Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QC Batch: 192423	Analysis Method: % Moisture				
QC Batch Method:	Analysis Description: Percent Moisture				
Associated Lab Samples:	928540194	928540202	928540210	928540228	928540236
	928540244	928540251	928540269	928540277	928540285
	928540293	928540301	928540319		

SAMPLE DUPLICATE: 928555937

<u>Parameter</u>	<u>Units</u>	928540194		<u>RPD</u>	<u>Footnotes</u>
		<u>Result</u>	<u>Result</u>		
Percent Moisture	%	18.50	17.20	8	

Lab Project Number: 92147161

Client Project ID: STATESVILLE PSA-WBS#32669.1.1

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

Date: 07/05/07

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
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NC Drinking Water 37706
SC 99006
FL NELAP E87627