

**PRELIMINARY SITE ASSESSMENT  
JAMES HUNTER PROPERTY  
840 WILSON LEE BOULEVARD  
STATESVILLE, NORTH CAROLINA  
STATE PROJECT: B-2576  
WBS ELEMENT: 32669.1.1**

**Prepared for:**  
NC Department of Transportation  
Geotechnical Engineering Unit  
GeoEnvironmental Section  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

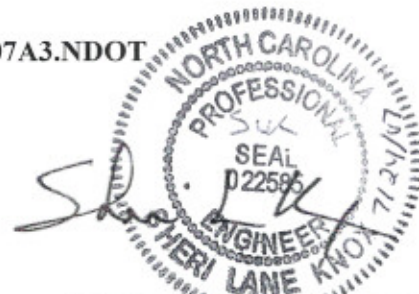
**Prepared by:**  
Solutions-IES  
1101 Nowell Road  
Raleigh, North Carolina 27607

**Solutions-IES Project No. 3610.07A3.NDOT**



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Robert P. Rogero, P.G.  
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Sheri L. Knox, P.E.  
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**July 20, 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 James Hunter property, located south of the railroad bridges, is one of the properties being 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 a portion of the James Hunter 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 a portion of the James Hunter property (Study Area) located on the northwest corner of Wilson Lee Boulevard and Charlotte Street at 840 Wilson Lee Boulevard in Statesville, Iredell County, North Carolina. Because the building on the property resembles an old gas station, the PSA focused on petroleum-related impacts. The building on site is identified as the Community Grocery and Grill. Photographs of the site are 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 of the site, and mobilized to the site June 4 and 5, 2007. The electromagnetic survey equipment (EM61) 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. Eight soil borings were advanced at the site to a depth of 12 feet below ground surface (ft bgs)

using a Geoprobe<sup>®</sup>. The borings were spaced approximately 12 to 18 feet apart at the approximate locations displayed in **Figure 3**. The GPS coordinates for the borings are included in **Appendix C**.

A MacroCore<sup>®</sup> sampler fitted with a dedicated polyvinyl chloride liner was used to collect soil 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 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 consisted of white, tan, red to brown silty clays and clayey silts (Unified Soil Classification CL/ML). Minor accessory fine sand 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 0.1 to 4.1 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-11, GP-12, GP-13, GP-15, GP-16, GP-17, and GP-18. However, TPH DRO was detected in the soil sample collected from boring GP-14 at a concentration of 50 mg/kg. 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 Arnold Robbins Property which is reported under a different cover.

## **DISCUSSION**

Solutions-IES advanced eight soil borings at the Study Area to a depth of 12 ft bgs. The highest FID reading measured 4.1 ppm in the sample collected from boring GP-13 at a depth of 6 to 8 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 sample collected from boring GP-14. TPH DRO was detected in GP-14 at a concentration of 50 mg/kg which is above 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 source of contamination is currently unknown. However, given that the impacted area is near the corner of the building, isolated, and compact, the source of contamination may be attributed to poor petroleum waste disposal practices, or leaking parked cars.

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. 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.

## **TABLES**

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

Sample Depth (ft bgs)	Soil Boring Identification							
	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18
	FID Reading (ppm)							
0 - 2	0.1	1.1	0.8	1.1	0.8	0.6	0.4	0.2
2 - 4	0.3	2.1	1.4	1.5	1.0	1.1	0.4	0.4
4 - 6	2.4	3.0	2.7	2.2	1.4	1.4	1.0	0.4
6 - 8	2.6	3.5	4.1	2.5	1.8	1.4	1.2	1.6
8 - 10	3.0	2.0	3.4	2.0	0.4	1.0	0.5	1.0
10 - 12	3.2	1.1	2.0	1.5	0.5	0.4	0.5	0.6

NOTES:

FID = Flame Ionization Detector; FID readings were obtained with a Photovac MicroFID Flame Ionization Detector.

ppm = parts per million

Samples denoted by shaded cells were submitted for laboratory analysis.

ft bgs = feet below ground surface

**Table 2**  
**Summary of Soil Analytical Results**  
**James Hunter Property**  
**Statesville, Iredell County, NC**  
**WBS Element: 32669.1.1**  
**Solutions-IES Project No. 3610.07A3.NDOT**  
**Sample Collection Date: June 19, 2007**

TPH DRO and TPH GRO (Method 8015B)										
Sample ID			GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18
Depth (ft bgs)			6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
Parameter	Regulatory Limit <sup>1</sup>	Units								
TPH DRO	10	mg/kg	<5.9	<5.9	<5.8	50	<6.7	<6.4	<6.7	<6.2
TPH GRO	10	mg/kg	<5.0	<4.9	<5.2	<4.7	<6.0	<6.0	<6.1	<5.4

NOTES:

ft bgs = feet below ground surface

Shaded values indicate concentrations above the regulatory limit

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

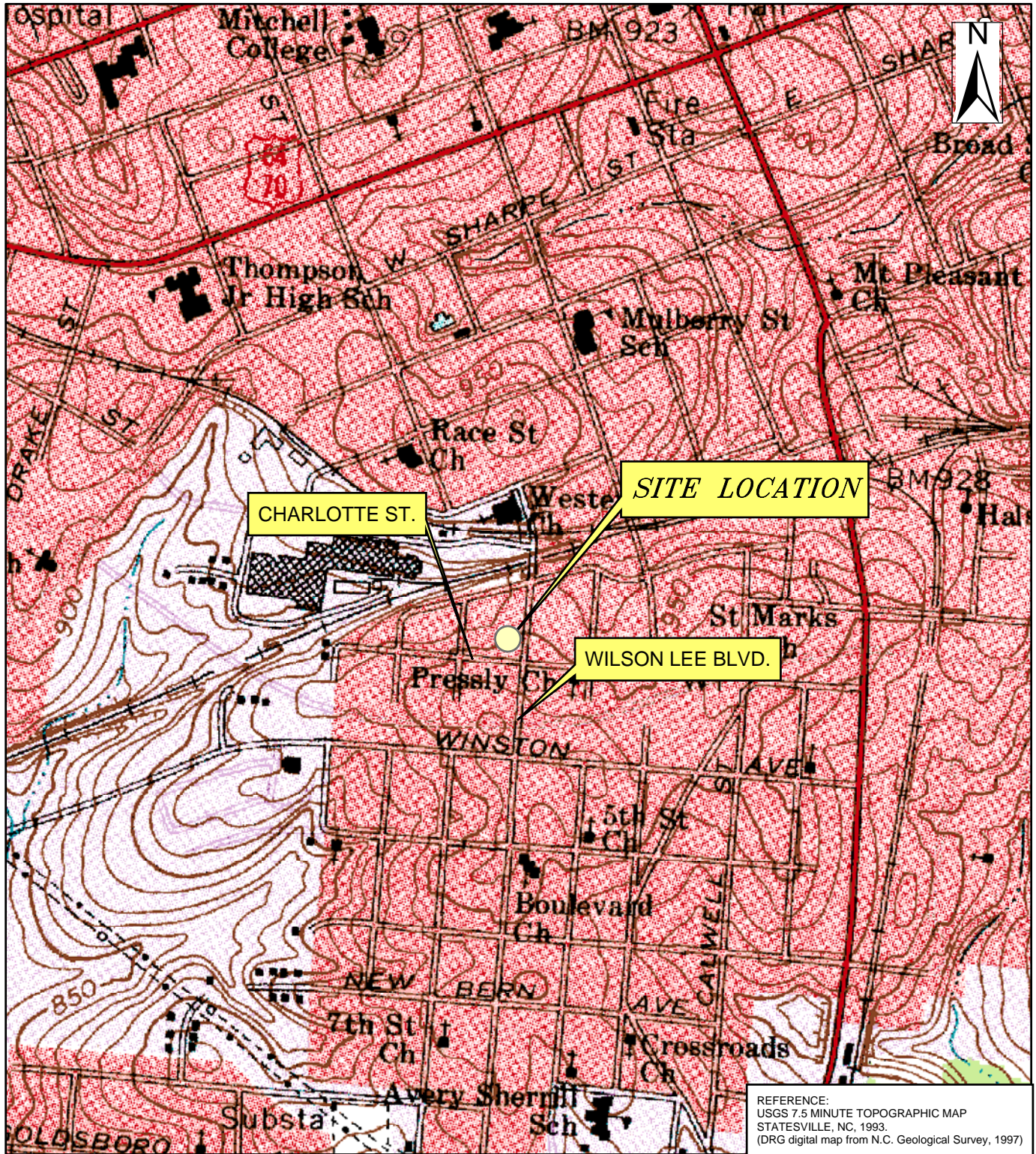
GRO = Gasoline Range Organics

mg/kg = milligrams per kilogram

<sup>1</sup> 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**



REFERENCE:  
 USGS 7.5 MINUTE TOPOGRAPHIC MAP  
 STATESVILLE, NC, 1993.  
 (DRG digital map from N.C. Geological Survey, 1997)

1:10,000

SITE LOCATION MAP  
 JAMES HUNTER PROPERTY  
 840 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	<b>FIGURE</b> 1

PROJECT NUMBER  
3610.07A3.NDOT

DRAFTER  
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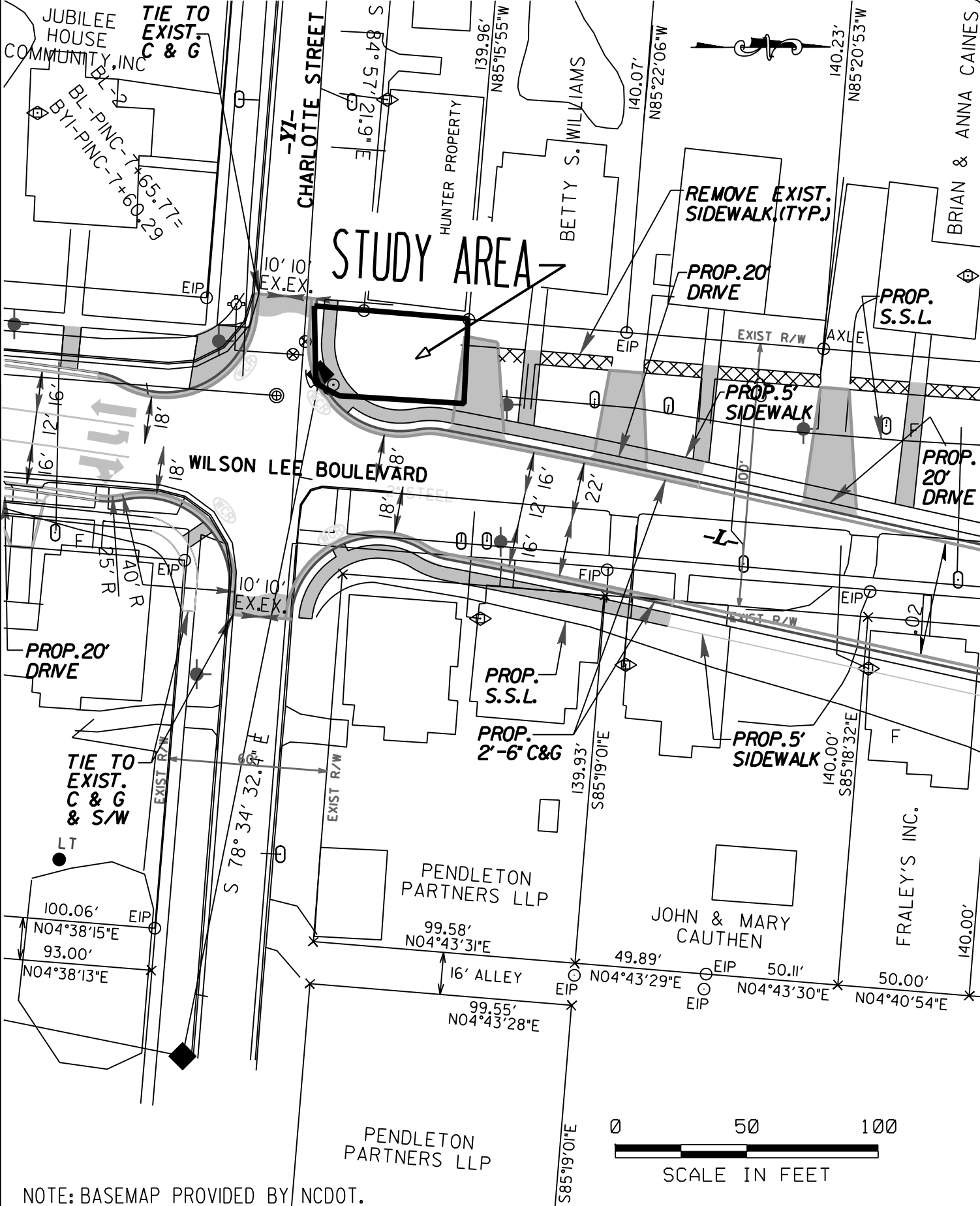
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DATE  
JULY 2007

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FIG2.DWG

NOTE: BASEMAP PROVIDED BY NCDOT.



1101 NOWELL ROAD  
 RALEIGH, NORTH CAROLINA 27607  
 TEL.: (919) 873-1060 FAX.: (919) 873-1074

SITE MAP  
 JAMES HUNTER PROPERTY  
 840 WILSON LEE BLVD.  
 STATESVILLE, NORTH CAROLINA  
 WBS ELEMENT NO. 32669.1.1

FIGURE#

2

PROJECT NUMBER  
3610.07A3.NDOT

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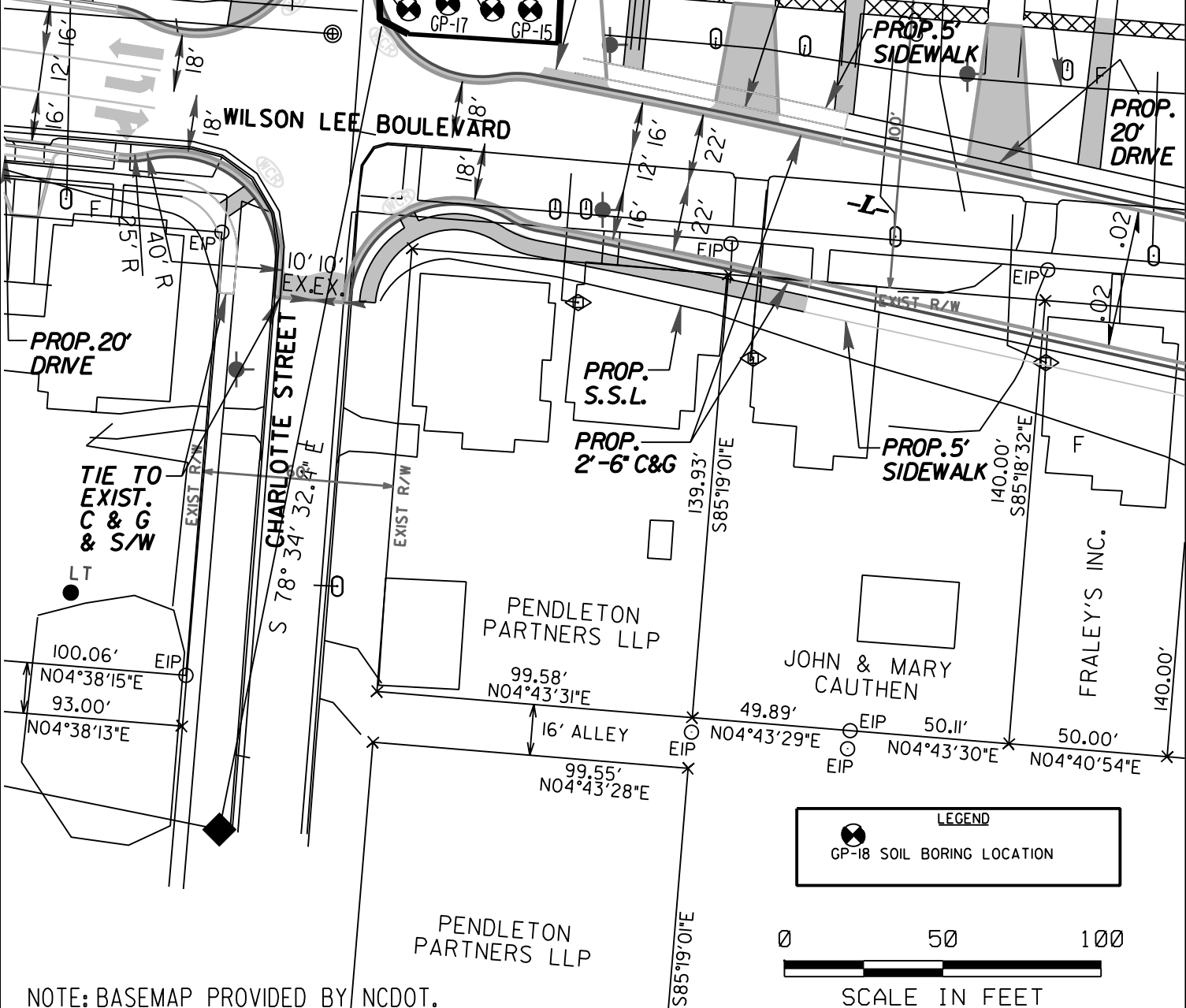
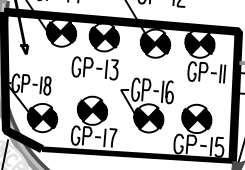
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DATE  
JULY 2007

FILE  
F103.DWG

JUBILEE HOUSE COMMUNITY, INC  
TIE TO EXIST. C & G  
BL-PINC-7+60.29  
BYI-PINC-7+60.29  
65.77'

# STUDY AREA



NOTE: BASEMAP PROVIDED BY NCDOT.



1101 NOWELL ROAD  
RALEIGH, NORTH CAROLINA 27607  
TEL.: (919) 873-1060 FAX.: (919) 873-1074

BORING LOCATIONS  
JAMES HUNTER PROPERTY  
840 WILSON LEE BLVD.  
STATESVILLE, NORTH CAROLINA  
WBS ELEMENT NO. 32669.1.1

FIGURE:

3

**APPENDIX A**  
**PHOTOGRAPHS**



**Photograph 1** – View toward the west of the James Hunter Property.



**Photograph 2** –Hunter Property Store

**APPENDIX B**  
**GEOPHYSICAL REPORT**

Pyramid Project # 2007153

**GEOPHYSICAL INVESTIGATION REPORT**

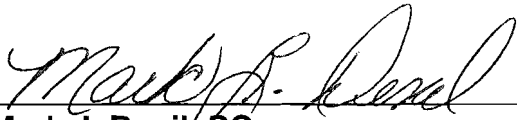
***GEOPHYSICAL SURVEYS FOR THE  
DETECTION OF METALLIC USTS***

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

**June 18, 2007**

**Report prepared for: Robert Rogero, PG  
Solutions-IES  
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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 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**

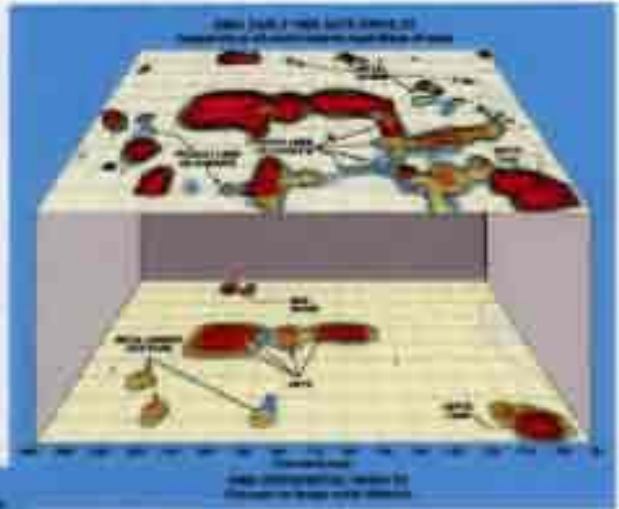
Our evaluation of the EM61 and GPR data collected across the surveyed portions of the James Hunter property and the Marjorie C. Robbins property located along Wilson Lee Boulevard in Statesville, North Carolina, provides the following summary and conclusions:

- 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.

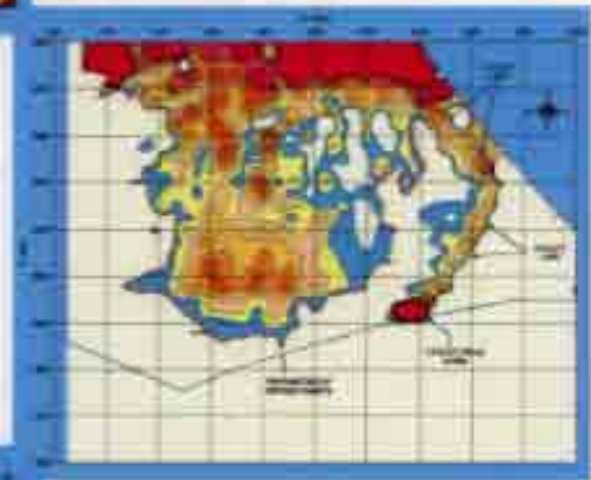
#### **5.0 LIMITATIONS**

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.

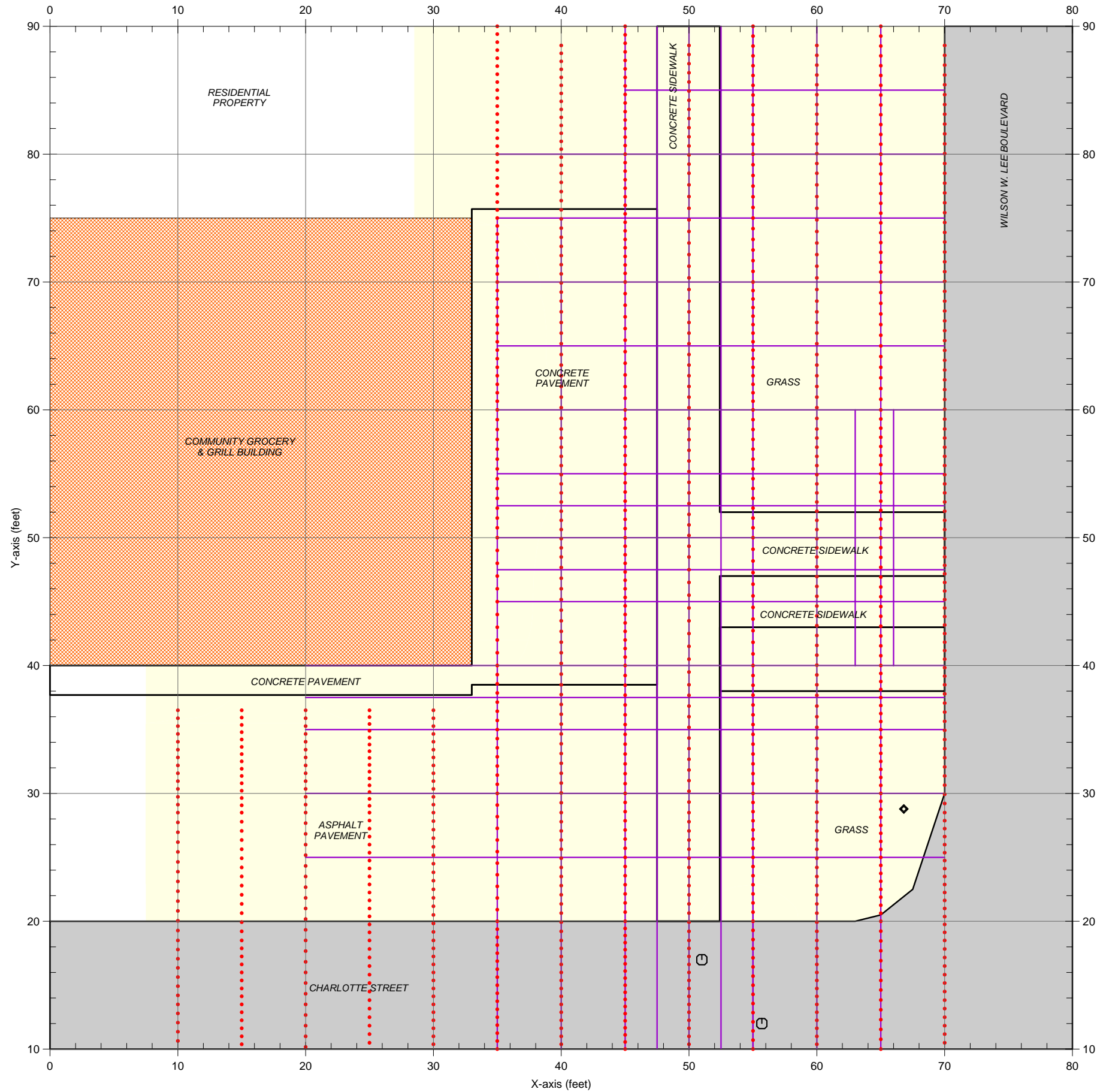


CLIENT	SOLUTIONS-IES				DATE	06/18/07	BY	MJD
PROJECT	HUNTER & ROBBINS SITES				DATE		BY	
CITY	STATESVILLE	STATE	NORTH CAROLINA		DATE		BY	
TITLE	GEOPHYSICAL RESULTS				NO.	2007-153	PROJECT	

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

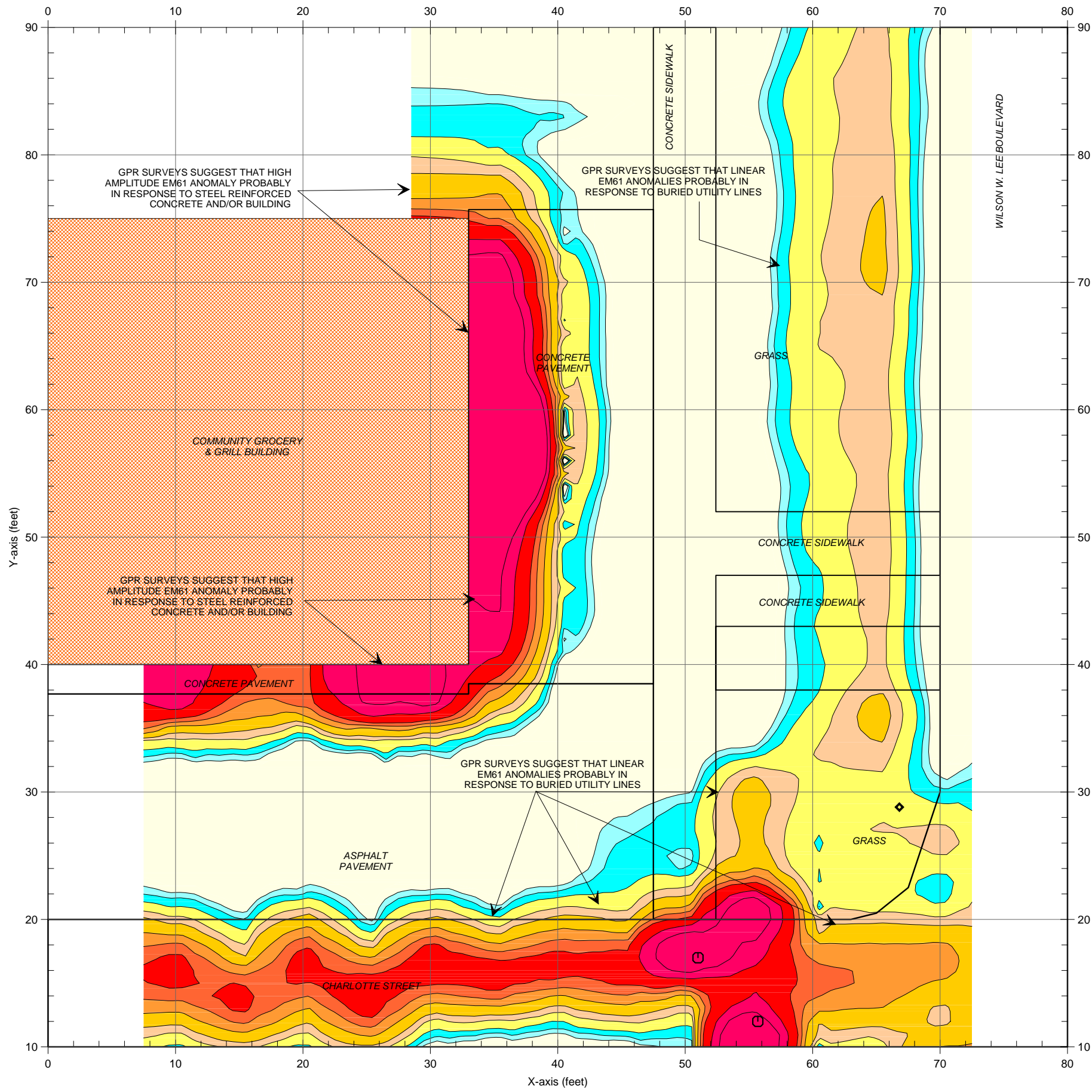
Note: The map shows the geophysical survey area at the Hunter site. The red dots represent the EM61 survey lines that were acquired on June 4, 2007 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were also acquired on June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

**GEOPHYSICAL SURVEY LINE LOCATIONS**

FIGURE 2

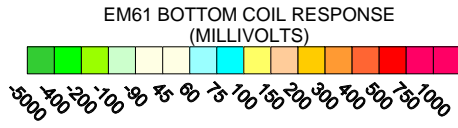
CLIENT	SOLUTIONS - IES	DATE	06/18/07	DRAWN	MJD	FIGURE	2007-153
SITE	JAMES HUNTER PROPERTY	LAY		CHKD			
CITY	STATESVILLE	DWG					
STATE	NORTH CAROLINA						
TITLE	GEOPHYSICAL RESULTS						

**PYRAMID**  
ENVIRONMENTAL & ENGINEERING, P.C.



**LEGEND**

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY 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.

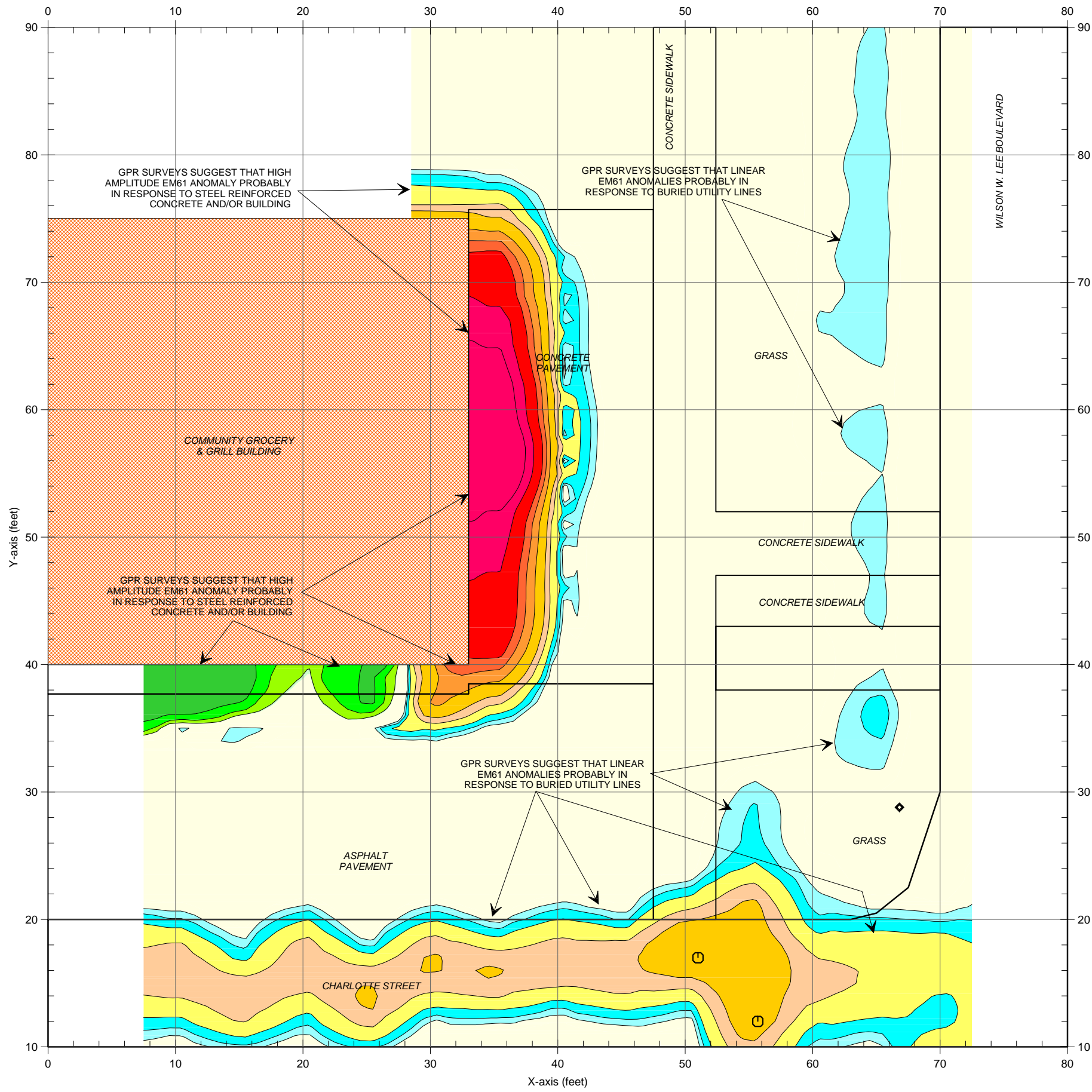
The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.

**EM61  
BOTTOM COIL  
RESULTS**

FIGURE 3

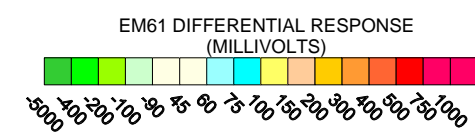
DATE	06/18/07	DRWN	MJD	FIGURE	2007-153
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DWG					
SOLUTIONS - IES		JAMES HUNTER PROPERTY		NORTH CAROLINA	
STATESVILLE				GEOPHYSICAL RESULTS	
CLIENT	SITE	CITY	STATE	TITLE	

**PYRAMID**  
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**LEGEND**

- SURVEY AREA: EM61 DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY 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.

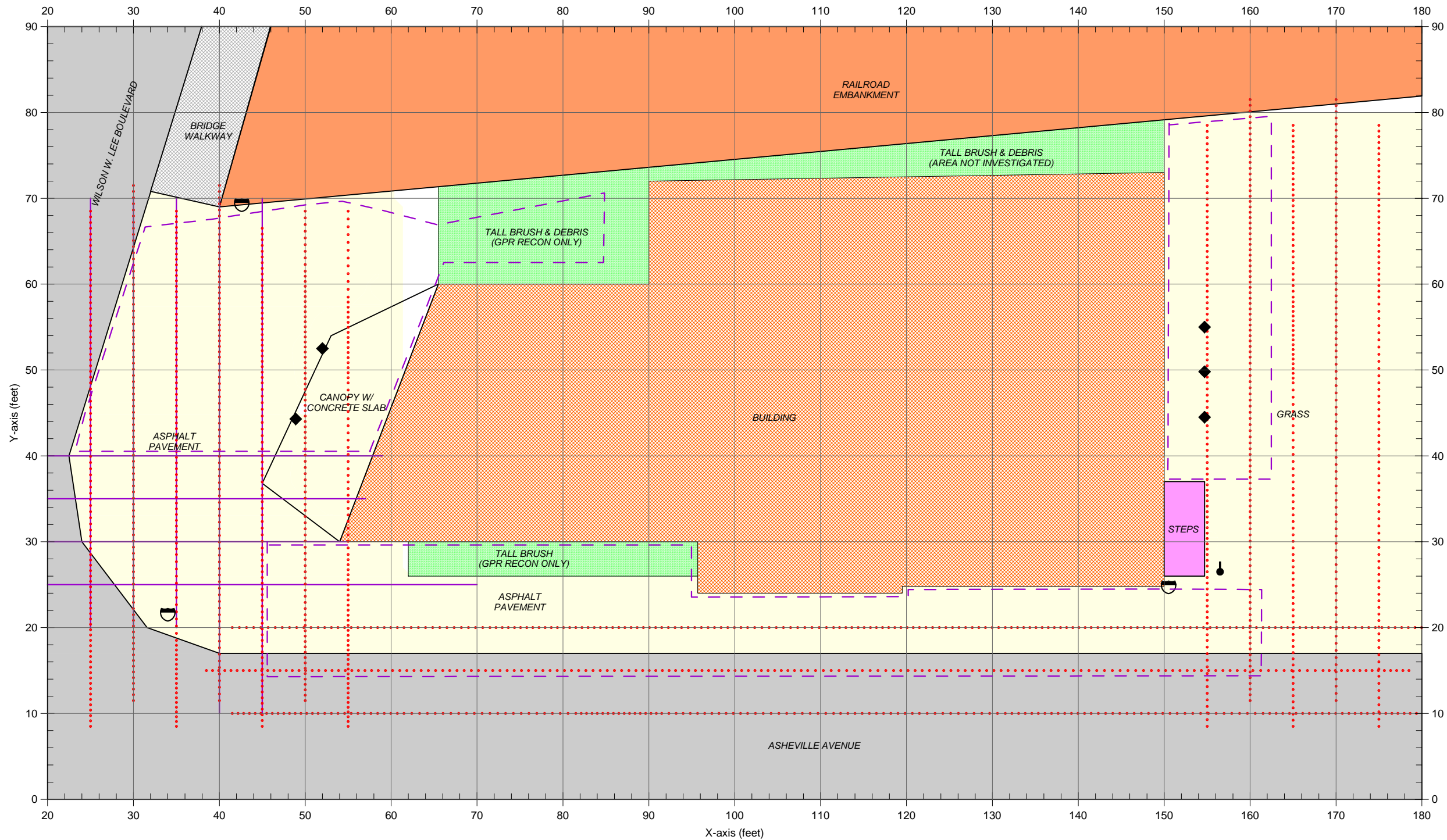
The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.

**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**  
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
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE
- AREA SCANNED BY GPR



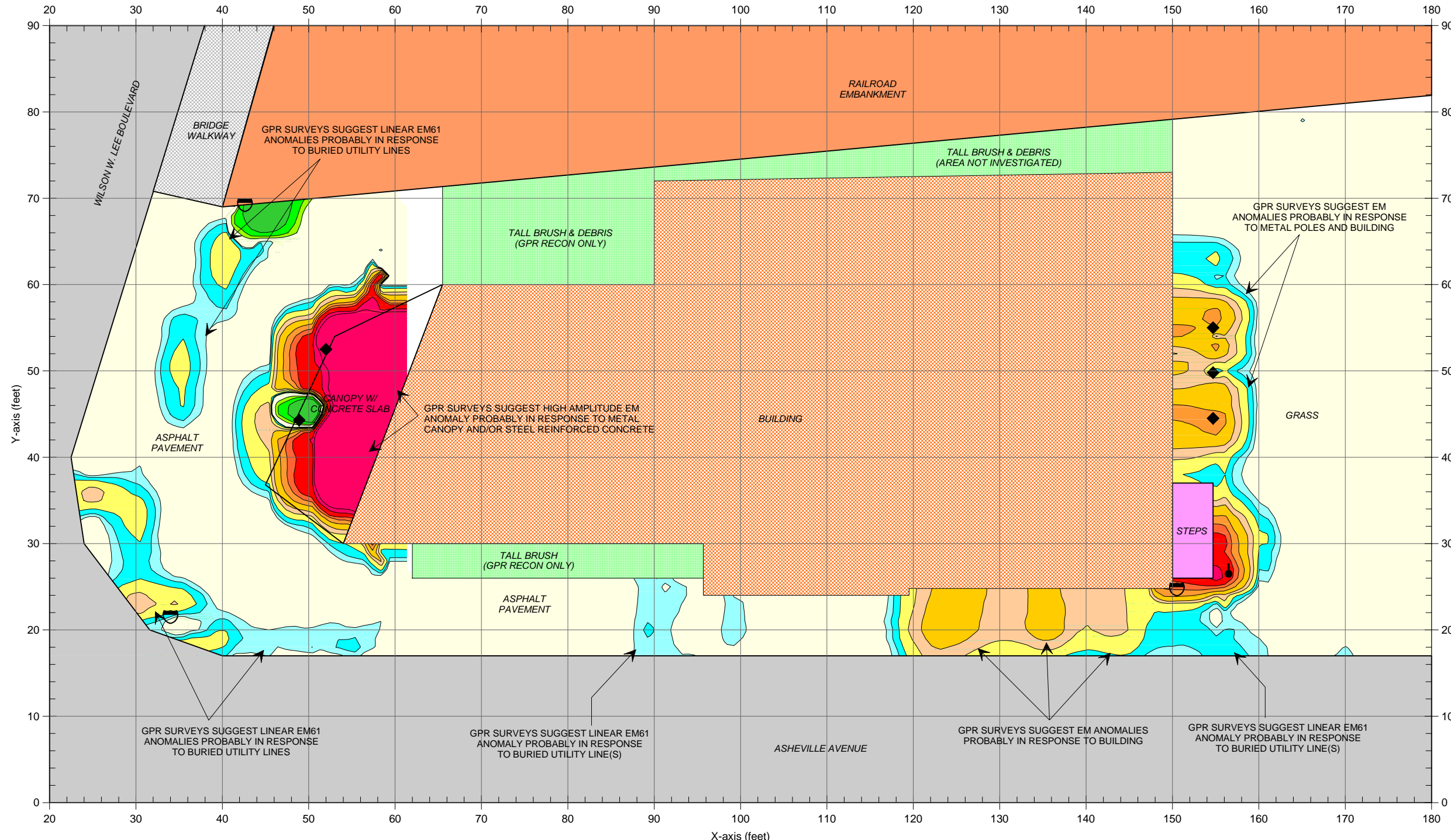
Note: The map shows the geophysical survey area at the Robbins site. The red dots represent the EM61 survey lines that were acquired on June 4, 2007 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were acquired on June 5, 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

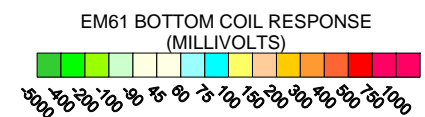
CLIENT	SOLUTIONS - IES	DATE	06/18/07	DRWN	MJD
SITE	MARJORIE C. ROBBINS PROPERTY	LAY		CHKD	
CITY	STATESVILLE	DWG			
STATE	NORTH CAROLINA	L-NO.	2007-153	FIGURE	
TITLE	GEOPHYSICAL RESULTS				





**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



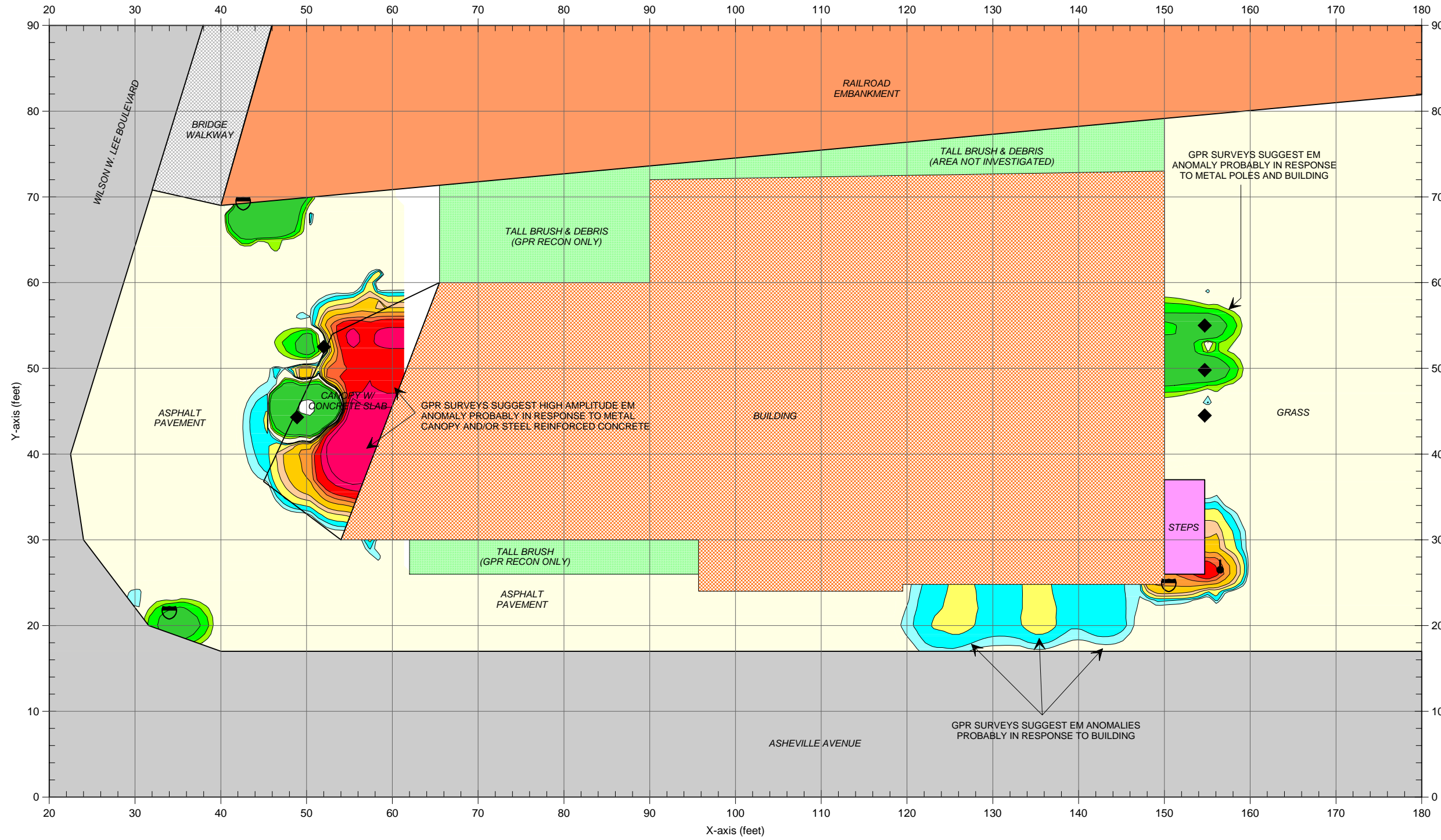
Note: The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 4, 2007 using a Geonics EM61 instrument. Ground penetrating radar (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

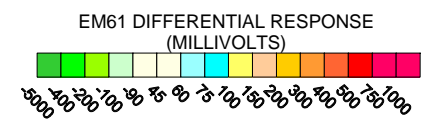
FIGURE 6

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



**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.

**EM61 DIFFERENTIAL RESULTS**

**FIGURE 7**

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

**APPENDIX C**

**GPS COORDINATES**

Boring Location GPS Coordinates  
John Hunter Property  
840 Wilson Lee Boulevard  
Statesville, Iredell County, North Carolina

	Latitude	Longitude
GP-11	35.77320602	-80.89108399
GP-12	35.77316998	-80.89102909
GP-13	35.77313921	-80.8910187
GP-14	35.77311625	-80.89101685
GP-15	35.77310795	-80.89094711
GP-16	35.77313821	-80.89093412
GP-17	35.77317308	-80.89093161
GP-18	35.77320769	-80.89093295



**APPENDIX D**  
**BORING LOGS**

# Log of Soil Boring: GP-11

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-11

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

County: Iredell

Initial Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Stabilized Water Level: N/A

Sampler Type: MC

Logged By: SKJ

Checked By:

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm ● 1 3 5 7 9	FID Field Screen ppm ■ 1 3 5 7 9	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
0 - 0.5		Concrete						
0.5 - 2.5	SM	Dry, brown and red, sandy silt		100%	0			
2.5 - 5.5	ML	Dry, brown and red, clayey silt			0			
5.5 - 8.5	ML	Dry, orange and tan, mottled clayey silt		100%	2			
8.5 - 11.5	ML	Dry, red, tan and white, clayey silt			3			
11.5 - 12.0	ML	Dry, purple and orange, clayey silt		100%	3			
12.0 - 16.0								

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Raleigh, NC 27607  
(919) 873-1060



# Log of Soil Boring: GP-12

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-12

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

Drilling Method: Direct Push

Sampler Type: MC

Logged By: SKJ

County: Iredell

Boring Date: 6/19/2007

Checked By:

Initial Water Level: N/A

Stabilized Water Level: N/A

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm 1 3 5 7 9	FID Field Screen ppm 1 3 5 7 9	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
0		Concrete						
1	SM	Dry, red and brown, sandy, clayey silt	0.5 - 1.5	100%	1	■		
2	ML	Dry, dark and light brown, clayey silt	1.5 - 2.5	100%	2	■		
4	CL	Dry, red and tan, silty clay	3.5 - 4.5	100%	3	■		
6	ML	Dry, orange, tan and white, clayey silt	5.5 - 6.5	100%	4	■		
8	CL	Dry, red and brown, silty clay	7.5 - 8.5	100%	2	■		
9	ML	Dry, orange, red and tan, clayey silt	8.5 - 9.5	100%	1	■		
10								
11								
12								
13								
14								
15								
16								

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# Log of Soil Boring: GP-13

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-13

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

County: Iredell

Initial Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Stabilized Water Level: N/A

Sampler Type: MC

Logged By: SKJ

Checked By:

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

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

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# Log of Soil Boring: GP-14

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-14

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

Drilling Method: Direct Push

Sampler Type: MC

Logged By: SKJ

County: Iredell

Boring Date: 6/19/2007

Checked By:

Initial Water Level: N/A

Stabilized Water Level: N/A

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen • ppm • 1 3 5 7 9	FID Field Screen ■ ppm ■ 1 3 5 7 9	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
0		<b>Asphalt</b>						
0 - 1	<b>SM</b>	Dry, dark and light brown, sandy, clayey silt		100%	1			
1 - 2	<b>ML</b>	Dry, red and brown, clayey silt		100%	2			
2 - 5	<b>ML</b>	Dry, orange and tan, clayey silt		100%	2			
5 - 7	<b>ML</b>	Dry, tan, white and orange, clayey silt		100%	3			
7 - 8	<b>ML</b>	Dry, red, clayey silt		100%	2			
8 - 9	<b>ML</b>	Dry, orange, tan and white, clayey silt		100%	2			
9 - 10	<b>ML</b>	Dry, light brown and tan, clayey silt		100%	2			
10 - 11	<b>ML</b>	Dry, purple and brown, clayey silt		100%	2			
11 - 12	<b>ML</b>	Dry, orange, purple, tan and white, clayey silt		100%				
12 - 13								
13 - 14								
14 - 15								
15 - 16								

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# Log of Soil Boring: GP-15

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-15

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

County: Iredell

Initial Water Level: N/A

Drilling Method: Direct Push

Boring Date: 6/19/2007

Stabilized Water Level: N/A

Sampler Type: MC

Logged By: SKJ

Checked By:

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen • ppm • 1 3 5 7 9 	FID Field Screen ■ ppm ■ 1 3 5 7 9 	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	<b>SM</b>	Dry, light brown and red, sandy, clayey silt	0.0 - 1.0	100%	1			
2								
3					1			
4	<b>ML</b>	Dry, red, clayey silt	1.0 - 4.0		1			
5	<b>ML</b>	Dry, orange, tan and white, clayey silt	4.0 - 6.0	100%				
6	<b>CL</b>	Dry, red and tan, mottled silty clay	6.0 - 7.0		2			
7	<b>ML</b>	Dry, red, purple and tan, clayey silt	7.0 - 8.0					
8	<b>ML</b>	Dry, brown and red, clayey silt	8.0 - 9.0		0			
9	<b>ML</b>	Dry, purple and brown, mottled clayey silt	9.0 - 10.0	100%				
10	<b>ML</b>	Dry, tan, brown and white, clayey silt	10.0 - 11.0		1			
11	<b>ML</b>	Dry, orange and tan, clayey silt	11.0 - 12.0					
12								
13								
14								
15								
16								

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# Log of Soil Boring: GP-16

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-16

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

Drilling Method: Direct Push

Sampler Type: MC

Logged By: SKJ

County: Iredell

Boring Date: 6/19/2007

Checked By:

Initial Water Level: N/A

Stabilized Water Level: N/A

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

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

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# Log of Soil Boring: GP-17

Project: 3610.07A3.NDOT

Solutions-IES Project No.: 3610.07A3.NDOT

Boring Number: GP-17

Client: NCDOT

WBS # 32669.1.1

State Project # B-2576

Drilling Method: Direct Push

Sampler Type: MC

Logged By: SKJ

County: Iredell

Boring Date: 6/19/2007

Checked By:

Initial Water Level: N/A

Stabilized Water Level: N/A

Cave In Depth: N/A

Total Depth of Boring: 12' bgs.

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

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# Log of Soil Boring: GP-18

Project: 3610.07A3.NDOT  
 Client: NCDOT  
 WBS # 32669.1.1  
 State Project # B-2576  
 Drilling Method: Direct Push  
 Sampler Type: MC  
 Logged By: SKJ

Solutions-IES Project No.: 3610.07A3.NDOT  
 County: Iredell  
 Boring Date: 6/19/2007

Boring Number: GP-18  
 Initial Water Level: N/A  
 Stabilized Water Level: N/A  
 Cave In Depth: N/A

Checked By:

Total Depth of Boring: 12' bgs.

SUBSURFACE PROFILE			SAMPLE		PID Field Screen • ppm 1 3 5 7 9	FID Field Screen ■ ppm 1 3 5 7 9	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	<i>ML</i>	Dry, red and brown, clayey silt		100%	0			
2					0			
3					0			
4	<i>ML</i>	Dry, red, orange and brown, clayey silt		100%	0			
5					0			
6					2			
7	<i>ML</i>	Dry, brown, purple, white and orange, clayey silt		100%	1			
8					1			
9					1			
10								
11								
12								
13								
14								
15								
16								

**Solutions-IES, Inc.**  
 1101 Nowell Road  
 Raleigh, NC 27607  
 (919) 873-1060



**APPENDIX E**

**LABORATORY ANALYTICAL REPORTS**  
**(Combined: James Hunter and Arnold Robbins Property)**



**Pace Analytical Services, Inc.**  
9800 Kinsey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

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



**Pace Analytical Services, Inc.**  
 9800 Kinsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	20.7	%		06/26/07 11:17	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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

Asheville Certification IDs  
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 NC Drinking Water 37712  
 SC Environmental 99030  
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 SC 99006  
 FL NELAP E87627



**Pace Analytical Services, Inc.**  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	26.7	%		06/26/07 11:18	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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		

Date: 07/05/07

Page: 2 of 26

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  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006  
 FL NELAP E87627



**Pace Analytical Services, Inc.**  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	24.4	%		06/26/07 11:18	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	17.3	%		06/26/07 11:19	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
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**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
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**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	RegLmt
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	10.6	%		06/26/07	11:27	TNM		
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.1	%		06/26/07 11:28	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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	RegLmt
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.2	%		06/26/07 11:28	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.1	%		06/26/07 11:28	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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	RegLmt
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.5	%		06/26/07 11:28	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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  
 Client Sample ID: GP-12-6-8

Project Sample Number: 92147161-012  
 Matrix: Soil  
 Date Collected: 06/19/07 12:15  
 Date Received: 06/21/07 14:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	Req/Lmt
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	14.7	%		06/26/07 11:28	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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		

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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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	14.5	%		06/26/07 11:29	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
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**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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.3	%		06/26/07 11:29	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	21.4	%		06/26/07 11:30	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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
<b>Wet Chemistry</b>								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.8	%		06/26/07 11:30	TNM			
<b>GC Semivolatiles</b>								
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				
<b>GC Volatiles</b>								
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		

Date: 07/05/07

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Asheville Certification IDs  
 NC Wastewater 40  
 NC Drinking Water 37712  
 SC Environmental 99030  
 FL NELAP F87648

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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		

Date: 07/05/07

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Asheville Certification IDs  
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 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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

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Pace Analytical Services, Inc.  
 9800 Kinsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

**QUALITY CONTROL DATA**

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

QC Batch: 192315 Analysis Method: EPA 8015  
 QC Batch Method: EPA 3545 Analysis Description: TPH in Soil by 3545/8015  
 Associated Lab Samples: 928540129 928540145

METHOD BLANK: 928552983  
 Associated Lab Samples: 928540129 928540145

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	90		

LABORATORY CONTROL SAMPLE: 928552991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	139.9	84	
n-Pentacosane (S)				91	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928553007 928553015

Parameter	Units	928548213 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	2.511	176.80	155.8	143.6	87	80	8	
n-Pentacosane (S)						96	88		

Date: 07/05/07

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**Pace Analytical Services, Inc.**  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

**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		

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 9800 Kinsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

**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 928540186  
 928540194 928540202 928540210 928540228

METHOD BLANK: 928554609

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

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

LABORATORY CONTROL SAMPLE: 928554617

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

MATRIX SPIKE: 928554625

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

SAMPLE DUPLICATE: 928554633

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

Date: 07/05/07

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Asheville Certification IDs  
 NC Wastewater 40  
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Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

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

LABORATORY CONTROL SAMPLE: 928558436

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

MATRIX SPIKE: 928558444

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

SAMPLE DUPLICATE: 928558451

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

Date: 07/05/07

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Asheville Certification IDs  
NC Wastewater 40  
NC Drinking Water 37712  
SC Environmental 99030  
FL NELAP E87638

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Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

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

Table with 6 columns: Parameter, Units, 928546415 Result, DUP Result, RPD, Footnotes. Row 1: Percent Moisture, %, 29.50, 28.30, 4.

Date: 07/05/07

Page: 24 of 26

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

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 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

**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

Parameter	Units	928540194	DUP	RPD	Footnotes
		Result	Result		
Percent Moisture	%	18.50	17.20	8	

Date: 07/05/07

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Asheville Certification IDs  
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 SC Environmental 99030  
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 9800 Kinsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

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

Page: 26 of 26

Asheville Certification IDs  
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 NC Drinking Water 37712  
 SC Environmental 99030  
 IL NELAP E87648

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 NC Drinking Water 37706  
 SC 99006  
 FL NELAP E87627

**Section A**  
Required Client Information:  
Company: Solutions-IES  
Address: 1101 Newell Rd  
Raleigh, NC 27607  
Email To: Projero Solutions-IES.com  
Phone: 919-873-1060 Fax: ---  
Requested Due Date/TAT: Standard

**Section B**  
Required Project Information:  
Report To: Robert Rojas  
Copy To: ---  
Purchase Order No.: WBS 32669.1.1  
Project Name: B-2576 (Stadium BA)  
Project Number: B-2576

**Section C**  
Invoice Information:  
Attention: NC DOT  
Company Name: NC DOT  
Address: ---  
Pace Quote Reference: ---  
Pace Project Manager: ---  
Pace Profile #: ---

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
 Site Location: NC  
 STATE: NC

Page: 1 of 2  
1066581

#	ITEM	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WT P WASTE WATER WL PRODUCT SL SOIL/SOLID WP OIL WIPE AR AIR OT OTHER TS TISSUE	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
						COMPOSITE START	COMPOSITE ENDGRAB					
1			GP-1-10-12	WP	G	DATE: 6/19/07	TIME: 1235		4		Y	
2			GP-2-10-12				1300					
3			GP-3-10-12				1350					
4			GP-4-0-2				1435					
5			GP-5-10-12				1540					
6			GP-6-8-10				1630					
7			GP-7-8-10				1715					
8			GP-8-10-12				6/19/07 805					
9			GP-9-10-12				850					
10			GP-10-10-12				945					
11			GP-11-10-12				1130					
12			GP-12-6-8				1215					

**ADDITIONAL COMMENTS**  
Don't want - Solutions-IES

**RELINQUISHED BY / AFFILIATION** TIME DATE  
Don't want - Solutions-IES

**ACCEPTED BY / AFFILIATION** TIME DATE  
---

**TEMPERATURE** °C  
---

**RESIDUAL CHLORINE** (Y/N)  
---

**ANALYSIS TEST**  
5030/8015 G-RO  
3545/8015 DRO

**RECEIVED ON** (Y/N)  
---

**CUSTODY** (Y/N)  
---

**SEALED COOLER** (Y/N)  
---

**SAMPLES INTACT** (Y/N)  
---

**SAMPLER NAME AND SIGNATURE:**  
PRINT Name of SAMPLER: SEAN SARVAH  
SIGNATURE of SAMPLER: Seanh Sarvah  
DATE Signed (MM/DD/YYYY): 6-20-07

**ORIGINAL**

F-ALL-Q-020rev.06, 2-Feb-2

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to rate changes of 1.5% per month for any invoices not paid within 30 days.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**  
**Required Client Information:**  
 Company: Solutions - IES  
 Address: 1101 North Rd  
Raleigh, NC 27607  
 Email To: engrco@solutions-ies.com  
 Phone: 919-873-1060  
 Requested Due Date/TAT: Standard

**Section B**  
**Required Project Information:**  
 Report To: Robert Rejzko  
 Copy To:  
 Purchase Order No.: WIS 32669111  
 Project Name: B-8576 (STATSWIK PH)  
 Project Number: B-2576

**Section C**  
**Invoice Information:**  
 Attention: NC DOT  
 Company Name: NC DOT  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER N

Site Location: \_\_\_\_\_  
 STATE: NC

Page: 2 of 2  
 1069246

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WT P WASTE WATER WW P WATER PRODUCT SL OL SOIL/SOLID WP AR OT TS OIL WIPE AIR OTHER TISSUE	SAMPLE ID (A-Z, 0-9 / . - ) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
			COMPOSITE START	COMPOSITE END/GRAB				DATE	TIME	DATE	TIME	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>			HCl	NaOH
1		GP-13-6-8			WP-G												
2		GP-14-6-8															
3		GP-15-6-8															
4		GP-16-6-8															
5		GP-17-6-8															
6		GP-18-6-8															
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>						

**ORIGINAL**

SAMPLER NAME AND SIGNATURE:  
 PRINT Name of SAMPLER: SEERY SARVAH  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): 6-20-07