



June 5, 2020

Ashley B. Cox, Jr, LG  
Geotechnical Engineering Unit  
North Carolina Department of Transportation  
1020 Birch Ridge Drive  
Raleigh, NC 27610

**RE: PHASE II INVESTIGATION OF PARCEL 85**  
**Former Hensdale Grocery, Daniel Ray Lasley**  
4685 Reidsville Road, Winston-Salem, NC  
ESP Project No. GR22.325

TIP Number: R-2577A  
WBS Number: 37405.1.2  
County: FORSYTH  
Description: US 158 from North of US 421 to SR 1965 (Belews Creek Road)

Dear Mr. Cox:

ESP Associates, Inc. (ESP) is pleased to submit this report on our GeoEnvironmental Phase II Investigation of the subject parcel. This work was performed in accordance with your Request for Proposal received on April 14, 2020, and our Cost Proposal dated April 23, 2020.

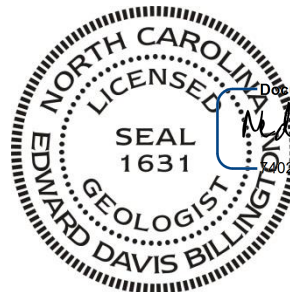
We appreciate the opportunity to assist you during this phase of the project. If you should have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

ESP Associates, Inc.

A handwritten signature in blue ink, appearing to read "Edward D. Billington".

Edward D. Billington, PG  
Senior Geologist/Geophysicist  
EDB/CRP/NAZ



DocuSigned by:

*Edward D. Billington*  
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## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	HISTORY .....	1
2.1	Ownership .....	1
2.2	NCDEQ Information .....	1
3.0	SITE OBSERVATIONS.....	2
4.0	METHODS .....	3
4.1	Geophysics .....	3
4.2	Borings .....	3
4.3	Soil Sample Protocol.....	3
4.4	Groundwater.....	4
5.0	RESULTS .....	4
5.1	Geophysics .....	4
5.2	Sample Data .....	4
5.3	Sample Observations.....	4
6.0	CONCLUSIONS.....	5
7.0	RECOMMENDATIONS.....	5
8.0	LIMITATIONS.....	5

## TABLES

Table 1	Soil Sample PID Readings
Table 2	Soil Sample UVF Results Summary

## **TABLE OF CONTENTS (continued)**

### **FIGURES**

Figure 1	Parcel 85, Daniel Ray Lasley, Site Vicinity Map
Figure 2	Parcel 85, Daniel Ray Lasley, Site Photographs
Figure 3	Parcel 85, Daniel Ray Lasley, EM61 Early Time Gate Data
Figure 4	Parcel 85, Daniel Ray Lasley, EM61 Differential Data
Figure 5	Parcel 85, Daniel Ray Lasley, EM61 Early Time Gate Data on Plan Sheet
Figure 6	Parcel 85, Daniel Ray Lasley, EM61 Differential Data on Plan Sheet
Figure 7	Parcel 85, Daniel Ray Lasley, Boring Locations on Plan Sheet
Figure 8	Parcel 85, Daniel Ray Lasley, Soil Analytical Results on Plan Sheet
Figure 9	Legend for Plan Sheet Figures

### **APPENDICES**

Appendix A	Soil Boring Logs
Appendix B	RED Lab Laboratory Testing Report
Appendix C	Chain-of-Custody Form
Appendix D	2003 UST Closure Report Figure 2 2005 LSA Report Figure 2

## 1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to widen U.S. 158 (Reidsville Road) from north of U.S. 421/I-40 Business to Belews Creek Road (S.R. 1965) in Forsyth County. The primary purpose of this project is to improve traffic operations. The NCDOT requested that ESP Associates, Inc. (ESP) perform a Phase II geoenvironmental investigation of the existing right-of-way (ROW) and part of the proposed ROW of Parcel 85 to locate possible underground storage tanks (USTs), sample soil, and delineate potential contaminated soil. Parcel 85 is located on the north side of Reidsville Road between Old Belews Creek Road and Franklin Farm Road (Figure 1).

## 2.0 HISTORY

### 2.1 Ownership

The following is the current parcel ownership, according to the Forsyth County GIS (<https://www.forsyth.cc/Tax/geodata.aspx>):

- Sale Date: 3/7/2008
- Current Owner: Lasley, Daniel Ray
- Owner's Address: 4915 Harley Dr, Walkertown NC 27051

### 2.2 NCDEQ Information

This parcel was listed as Site 3 in the 2004 Phase 1 report that was provided by the NCDOT. We checked the following sources at the NCDEQ with the results summarized below:

- Division of Waste Management Site Locator Tool
  - Indicated UST Incident #30195
  - Site Name: Hensdale Grocery.
  - No files in Documents Link.
- NC UST Facility Operating Permits
  - No listing
- Registered USTs Database
  - 3 Registered USTs installed in May 1982
    - Facility: 016021
    - Facility Name: Steve Moore-Hensdale Grocery
    - 8000, 4000, and 4000-gallon gasoline USTs
  - The 3 USTs were removed in June 2003.
- Incident Management Database (Regional USTs)
  - Incident: 30195
  - UST No.: WS-6682
  - Date Occurred: 6/17/2003

- Closed out: 4/28/2006
- Contamination: Soil
- Site sent to State Lead 4/30/2004
- Winston-Salem Regional NCDEQ Office
  - Provided information on AST Incident #95451
    - Spill occurred 3/10/2017 (Hagan Trucking Diesel Spill)
    - Soil remediation report dated 3/28/2017 indicated that the spill occurred in the existing NCDOT ROW of Parcel 85 on the edge of Reidsville Road near the intersection of Old Belews Creek Road.
      - Cleanup was hampered by shallow bedrock and buried utilities.
      - Soil testing after cleanup indicated that one sample (near our Boring B85-1) exceeded current NC action levels for Gasoline Range Organics (GRO) and Diesel Range Organics (DRO).
- NCDEQ UST Section, Trust Fund Branch
  - Provided copy of July 15, 2003 UST Closure Report
    - The closure report indicated that the 3 USTs, the vent lines, and the product line to the former dispenser island were removed. Soil was excavated down to bedrock about 5 to 6 feet below ground surface (bgs) and disposed of offsite. Samples taken at the bottom of the excavation indicated some remaining petroleum contamination.
    - The closure report indicated that the former tank pit was located on the northeast side of the parcel (near our Boring B85-10) and the former dispenser island was located near the center of the parcel (near our Boring B85-7).
    - A copy of the figure from that report showing the location of the former tank pit and the former dispenser island is included in Appendix D.
  - Provided copy of January 14, 2005 Limited Assessment Report (LSA) for Incident #30195.
    - A monitoring well (MW-1) was installed at the location of the former dispenser island. The groundwater level was approximately 25 feet bgs.
    - A copy of the figure from the LSA report showing the location of the former tank pit, the former dispenser island, and MW-1 is included in Appendix D.

### **3.0 SITE OBSERVATIONS**

During our May 2020 field work, the site was occupied by a single building with two businesses: Creative Designs and Black Clover Tattoo (Figure 2). The ground in the study area was covered by grass and gravel. Some apparent rock outcrops were noted on the northeast side of the parcel towards Franklin Farm Road. One monitoring well was present at the former dispenser island location.

## **4.0 METHODS**

ESP performed a geophysical study of the area designated by the NCDOT on May 4, 2020. The geophysical investigation area was approximately 0.53 acres and encompassed the existing ROW and some of the proposed ROW. We performed direct-push drilling and sampling of subsurface soils on May 14, 2020. A photoionization detector (PID) was used to screen subsurface soils in the field and select soil samples to send for laboratory analysis. Groundwater was not encountered during the drilling investigation.

### **4.1 Geophysics**

ESP performed a metal detector study over the accessible areas of the site using a Geonics EM61 MK2 with a line spacing of approximately three feet (Figures 3 and 4). Location control was provided in real-time using a differential global positioning system (DGPS). No EM61 anomalies were observed that required additional investigation using ground-penetrating radar (GPR).

### **4.2 Borings**

ESP performed direct-push drilling activities within the existing and proposed ROWs of Parcel 85 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Ten borings were drilled, designated B85-1 through B85-10 (Figure 7). The borings were evenly spaced throughout the study area. Boring B85-1 was located near the southern corner of the parcel, in the vicinity of the 2017 diesel spill. Boring B85-7 was located near the former dispenser island. Boring B85-10 was located in the vicinity of the former tank pit. Borings B85-3, B85-9, and B85-10 were located close to proposed drainage structures.

The soil borings were advanced using a GeoProbe 7822DT drill rig. A hand auger was used to sample two borings due to poor direct-push recovery. Soil samples were obtained to a maximum depth of approximately 10 feet using two 5-foot long Macro-Core® tubes. The sampling equipment was decontaminated prior to drilling and between borings by the driller using a Liquinox® detergent solution. Soil cores varied in recovery from 1.8 to 4.4 feet (36 to 88 percent recovery). Eight of the borings encountered refusal at depths ranging from 1.8 to 7.0 feet and were offset for a second attempt. Direct-push refusal was likely on weathered bedrock.

### **4.3 Soil Sample Protocol**

Representative soil samples were taken from the Macro-Core tubes at approximate one-foot intervals by the ESP field geologist while wearing nitrile disposable gloves. Each sample was placed in a sealed plastic bag and then kept in a warm area for approximately 10 to 15 minutes prior to measuring volatile organic compound (VOC) levels in the head space with the PID. The maximum PID readings in each of the borings ranged from 0.3 to 1.3 parts per million (ppm) (Table 1).

Eight soil samples were selected for laboratory analysis, as listed in Table 2. For each selected sample, an approximate 10-gram soil sample was collected from the sample bag using a Terra Core™ sampler and placed into a laboratory-supplied 40-milliliter volatile organic analysis (VOA) vial containing methanol. Once sealed, the vial was labeled with the sample identification number and then shaken vigorously for about one minute. The samples were packed on ice and sent via overnight delivery to RED Lab, LLC (RED Lab), located in Wilmington, North Carolina, following proper chain-of-custody procedures (Appendix C).

RED Lab used a QED Hydrocarbon Analyzer to quantitatively analyze the soil samples using the ultraviolet fluorescence (UVF) method for benzene, toluene, ethylbenzene, and xylene (BTEX); gasoline range organics (GRO); diesel range organics (DRO); total petroleum hydrocarbons (TPH); total aromatics; polycyclic aromatic hydrocarbons (PAHs); and benzo(a)pyrene (BaP).

#### **4.4 Groundwater**

Groundwater was not encountered in the 10 borings.

### **5.0 RESULTS**

#### **5.1 Geophysics**

The EM61 early time gate data show the response from both shallow and deeper metallic objects (Figure 3). The differential response reduces the effect of shallow anomalies and emphasizes anomalies from larger and more deeply buried metallic objects, such as USTs (Figure 4). Our evaluation of the differential response indicated the anomalies were caused by known site features.

The EM61 early time gate response and differential response are shown on the plan sheet on Figures 5 and 6, respectively.

#### **5.2 Sample Data**

The soil sample UVF hydrocarbon analysis results for BTEX, GRO, DRO, and PAHs are presented in Table 2. The maximum values of GRO and DRO per boring are shown on Figure 8. The RED Lab laboratory report, which also includes results for TPH, total aromatics, and BaP, is provided in Appendix B. Values are provided in milligrams per kilogram (mg/kg or ppm).

#### **5.3 Sample Observations**

The results of the laboratory testing indicate that DRO was detected in 6 samples (ranging from 0.63 to 34.8 ppm) but below the NCDEQ action level for DRO of 100 ppm. BTEX, GRO, and BaP values were below the laboratory detection limits for the 8 samples tested (Table 2). PAHs were detected in one sample (B85-7, S1) with a value of 0.92 ppm.

## **6.0 CONCLUSIONS**

The results of the Phase II investigation for Parcel 85 of NCDOT Project R-2577A indicates that there is no evidence for abandoned USTs in the study area. Laboratory testing detected DRO petroleum compounds in 6 of the 8 soil samples tested but the readings were less than the NCDEQ action level for DRO. The PID readings during sampling ranged from 0.1 to 1.3 ppm.

## **7.0 RECOMMENDATIONS**

No limitations on construction activities or special handling of excavated soil are recommended for the study area on Parcel 85. Groundwater was not encountered in the upper 10 feet in the study area. Direct-push boring refusal from apparent weathered bedrock was encountered at depths from 1.8 to 7.0 feet bgs; this may be an issue in areas of planned cut during construction.

## **8.0 LIMITATIONS**

ESP's professional services have been performed, findings obtained, and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. ESP is not responsible for the independent conclusions, opinions, or recommendations made by others based on the data presented in this report.

The passage of time may result in a change in the environmental characteristics at this site and surrounding properties. ESP does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. ESP does not assume responsibility for other environmental issues that may be associated with the subject site.



## **TABLES**

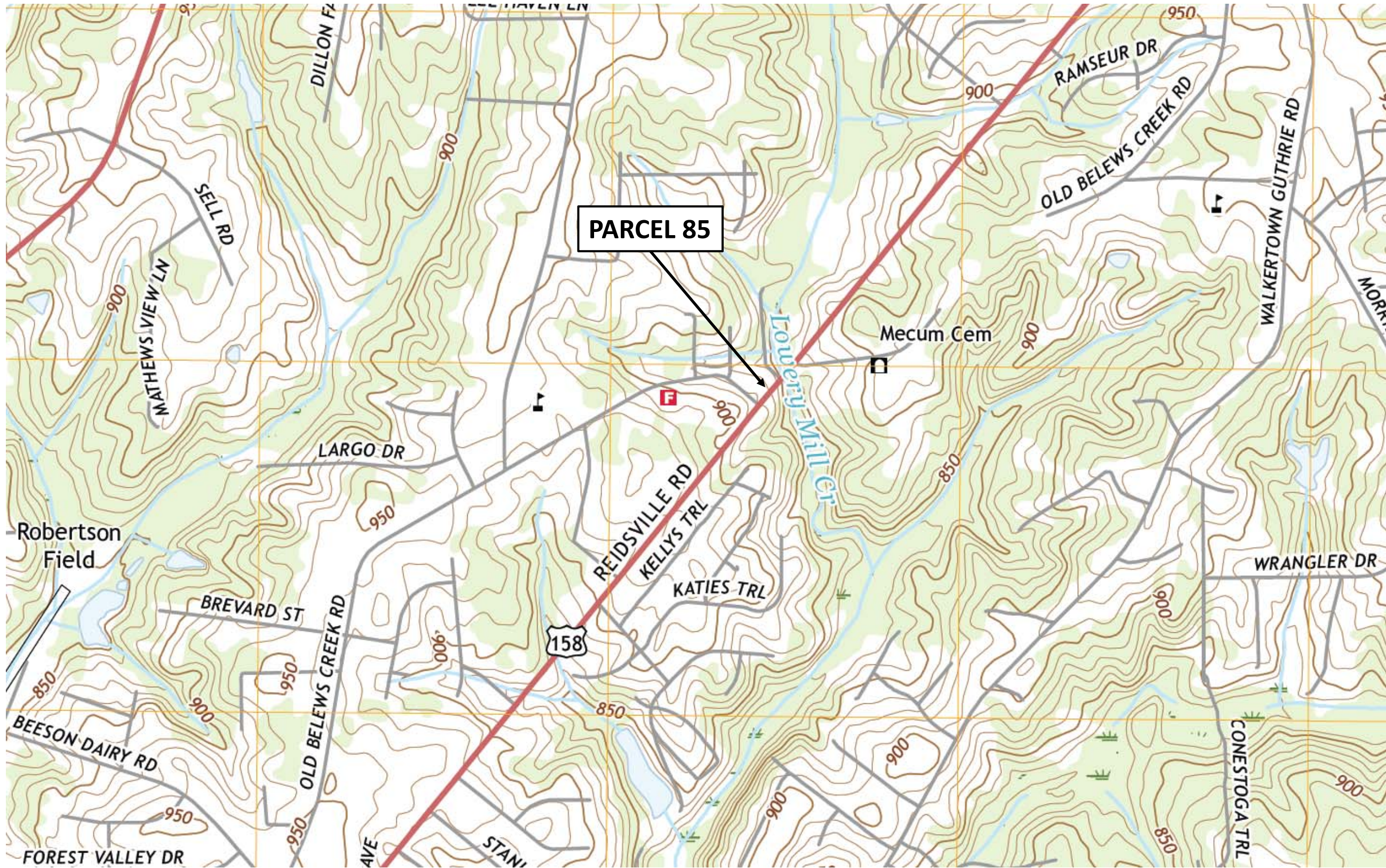
**TABLE 1**  
**SOIL SAMPLE PID READINGS**

<b>Boring</b>	<b>Sample Depth Range with PID &gt; 10 ppm (feet bgs)</b>	<b>Maximum PID Reading (ppm) and Sample Depth (feet bgs)</b>
B85-1	none	0.6 (3.0-3.5)
B85-2	none	0.4 (1.0-1.5)
B85-3	none	0.3 (2.0-2.5)
B85-4	none	0.6 (1.0-1.5)
B85-5	none	0.4 (1.0-1.5)
B85-6	none	0.4 (2.0-4.5)
B85-7	none	0.6 (1.0-1.5)
B85-8	none	0.8 (6.0-6.5)
B85-9	none	0.8 (7.0-7.5)
B85-10	none	1.3 (2.0-2.5)

**TABLE 2**  
**SOIL SAMPLE UVF RESULTS SUMMARY**

<b>Boring</b>	<b>Sample ID (depth in feet bgs)</b>	<b>Date Collected</b>	<b>BTEX (C6-C9) (mg/kg)</b>	<b>GRO (C5-C10) (mg/kg)</b>	<b>DRO (C10-C35) (mg/kg)</b>	<b>PAHs (mg/kg)</b>
B85-1	S3 (3.0-3.5)	5/14/20	<0.44	<0.44	1.1	<0.14
B85-2	S1 (1.0-1.5)	5/14/20	<0.52	<0.52	0.76	<0.17
B85-4	S1 (1.0-1.5)	5/14/20	<0.52	<0.52	<0.52	<0.17
B85-5	S1 (1.0-1.5)	5/14/20	<0.52	<0.52	0.63	<0.17
B85-7	S1 (1.0-1.5)	5/14/20	<0.5	<0.5	34.8	0.92
B85-8	S6 (6.0-6.5)	5/14/20	<0.44	<0.44	1.7	<0.14
B85-9	S7 (7.0-7.5)	5/14/20	<0.53	<0.53	0.9	<0.17
B85-10	S6 (6.0-6.5)	5/14/20	<0.5	<0.5	<0.5	<0.16

## FIGURES



From: USGS US Topo 7.5 - minute map for WALKERTOWN QUADRANGLE, NC, Date: 2019, Original Scale: 1:24,000

PROJECT NO.	GR22.325
SCALE	AS SHOWN
DATE	5/29/2020
BY	CRP/EDB

**FIGURE 1 – PARCEL 85, DANIEL RAY LASLEY  
SITE VICINITY MAP**

**NCDOT PROJECT R-2577A  
US 158 FROM NORTH OF US 421 TO SR 1965  
FORSYTH COUNTY, NORTH CAROLINA**



ESP Associates, Inc.  
7011 Albert Pick Rd.,  
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A. Photograph from northeast corner, looking southwest.



B. Photograph from south end, looking north.



C. Photograph from west corner, looking east.



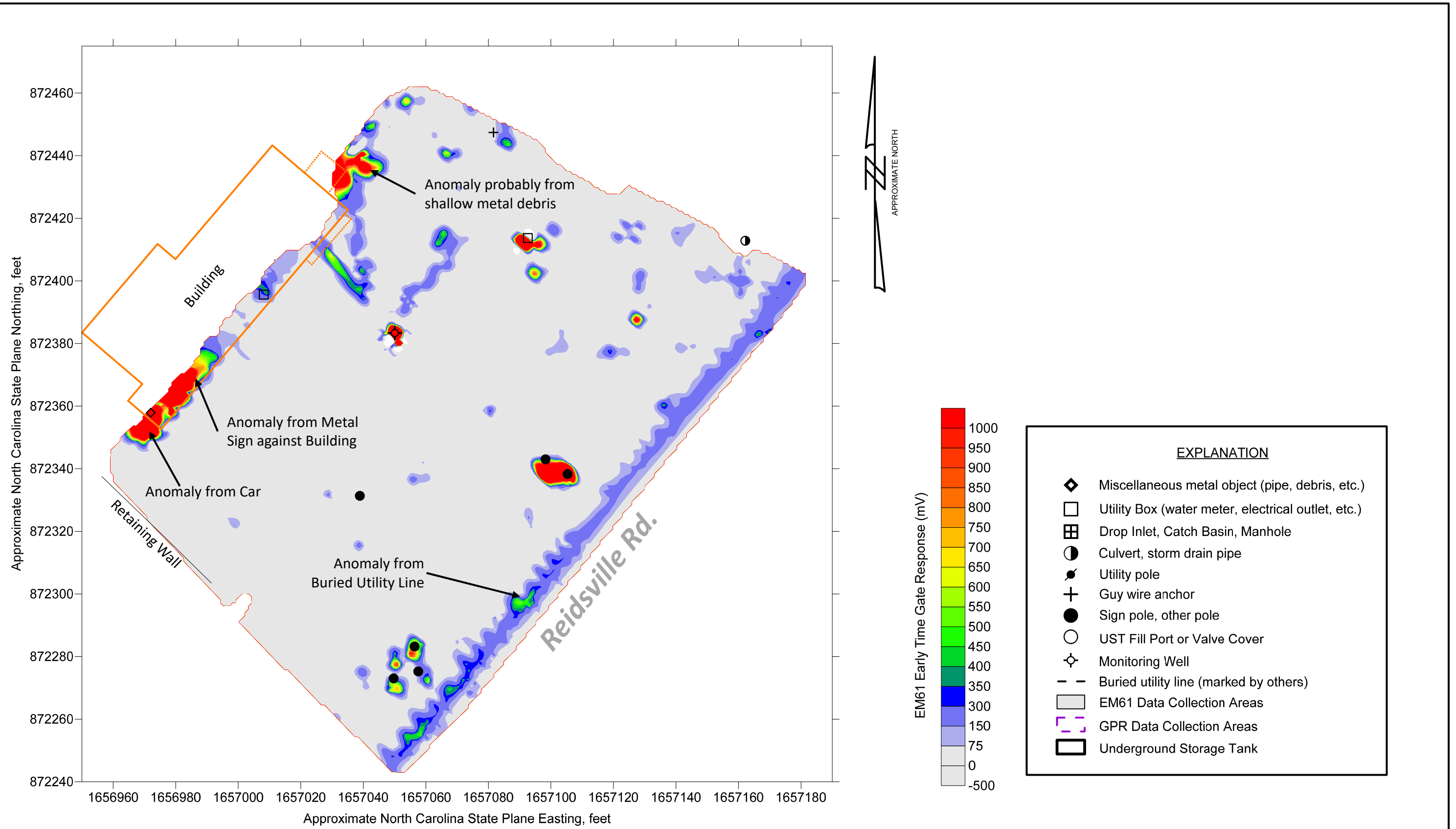
D. Photograph of collecting hand auger samples at Boring B85-1.

PROJECT NO.	GR22.325
SCALE	N/A
DATE	5/29/2020
BY	CRP/EDB

**FIGURE 2 – PARCEL 85, DANIEL RAY LASLEY  
SITE PHOTOGRAPHS**  
**NCDOT PROJECT R-2577A  
US 158 FROM NORTH OF US 421 TO SR 1965  
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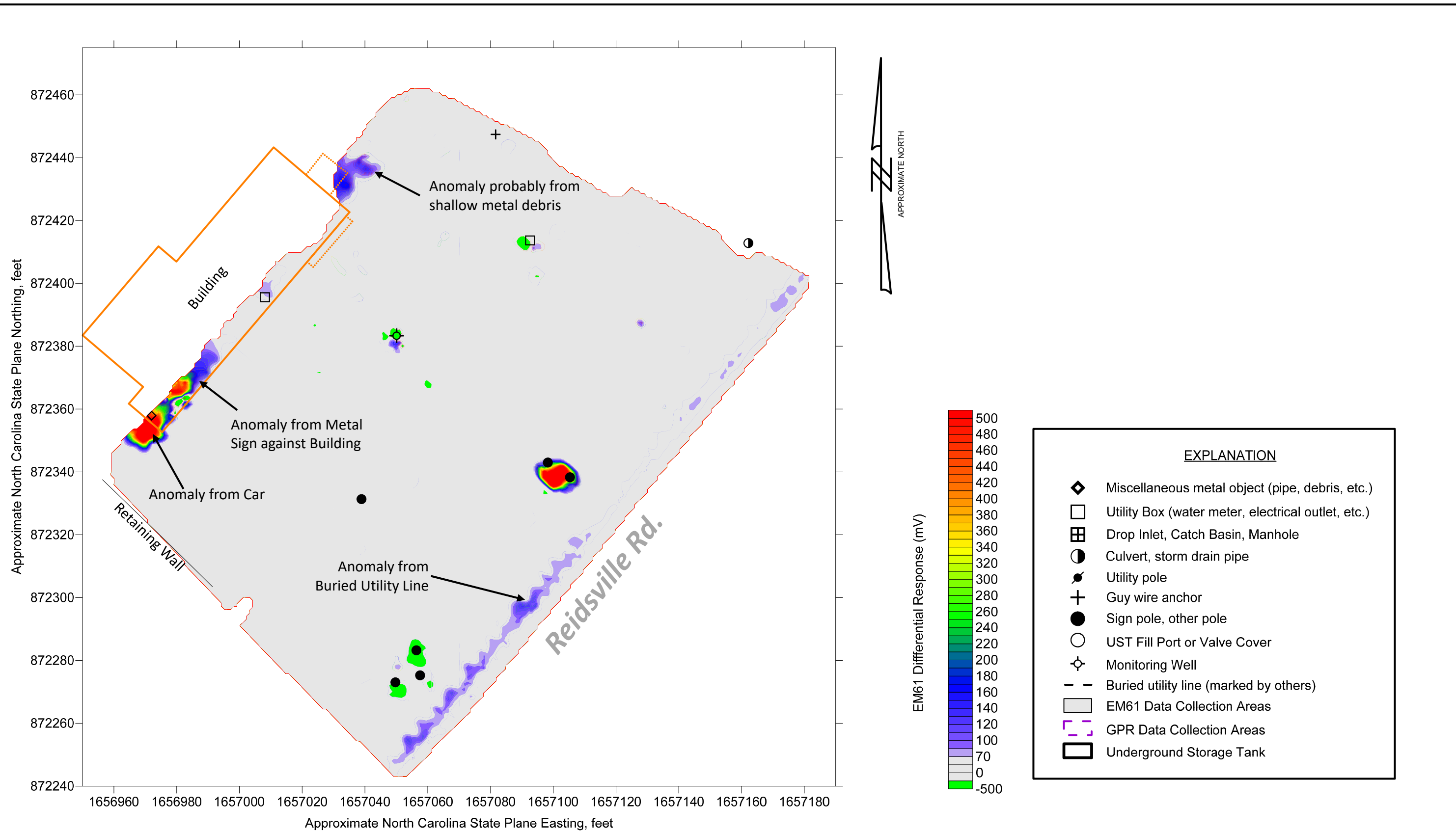
Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

PROJECT NO.	GR22.325
SCALE	AS SHOWN
DATE	5/29/2020
BY	CRP/EDB

**FIGURE 3 – PARCEL 85, DANIEL RAY LASLEY**  
**EM61 EARLY TIME GATE DATA**  
**NCDOT PROJECT R-2577A**  
**US 158 FROM NORTH OF US 421 TO SR 1965**  
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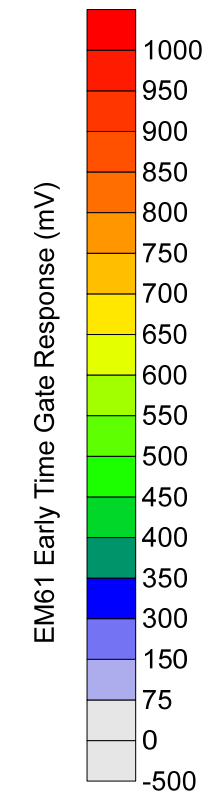
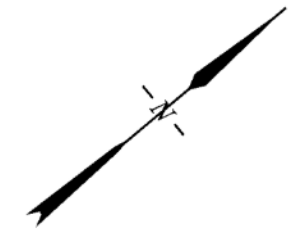
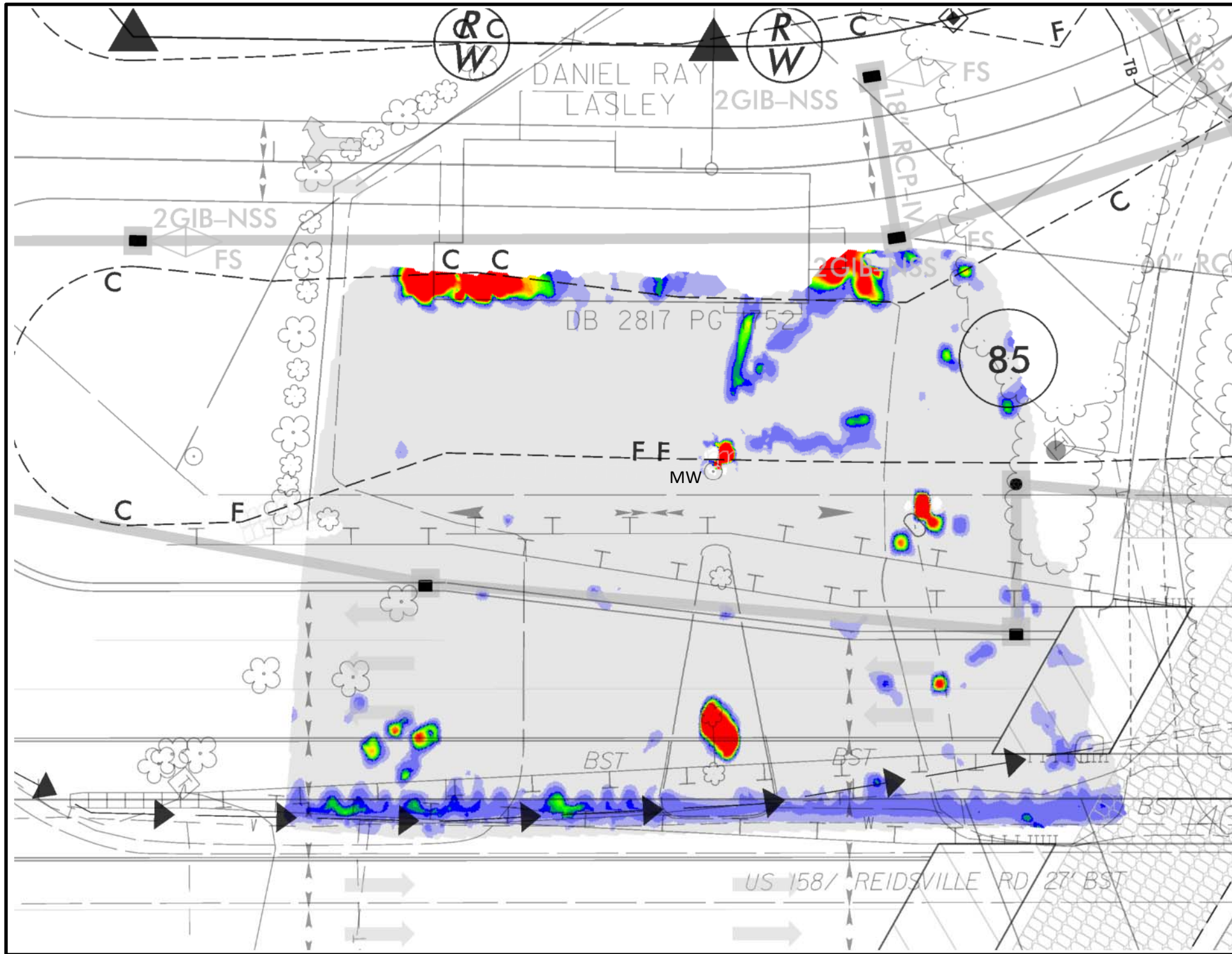
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**FIGURE 4 – PARCEL 85, DANIEL RAY LASLEY**  
**EM61 DIFFERENTIAL DATA**  
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- ☑ R-2577A\_Geo\_env.dgn
- ☑ R-2577A\_hyd\_drn.dgn
- ☑ R2577A\_ncdot\_fs.dgn
- ☑ R-2577A\_rdy\_dsn.dgn
- ☑ R-2577A\_rdy\_dsn\_driveways.dgn
- ☑ R-2577A\_rdy\_dsn\_guardrail.dgn
- ☑ R-2577A\_rdy\_HISTORIC.dgn
- ☑ R-2577A\_rdy\_map\_owner\_no.dgn
- ☑ R-2577A\_rdy\_row.dgn
- ☑ R-2577A\_rdy\_row\_AG.dgn
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- ☑ R-2577A\_rdy\_ss.dgn



See Figure 9 for explanation of symbols and line types

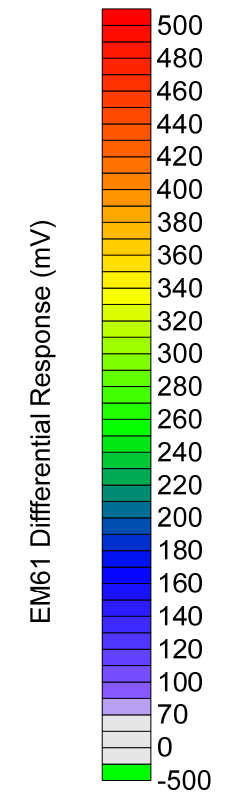
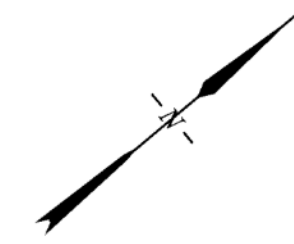
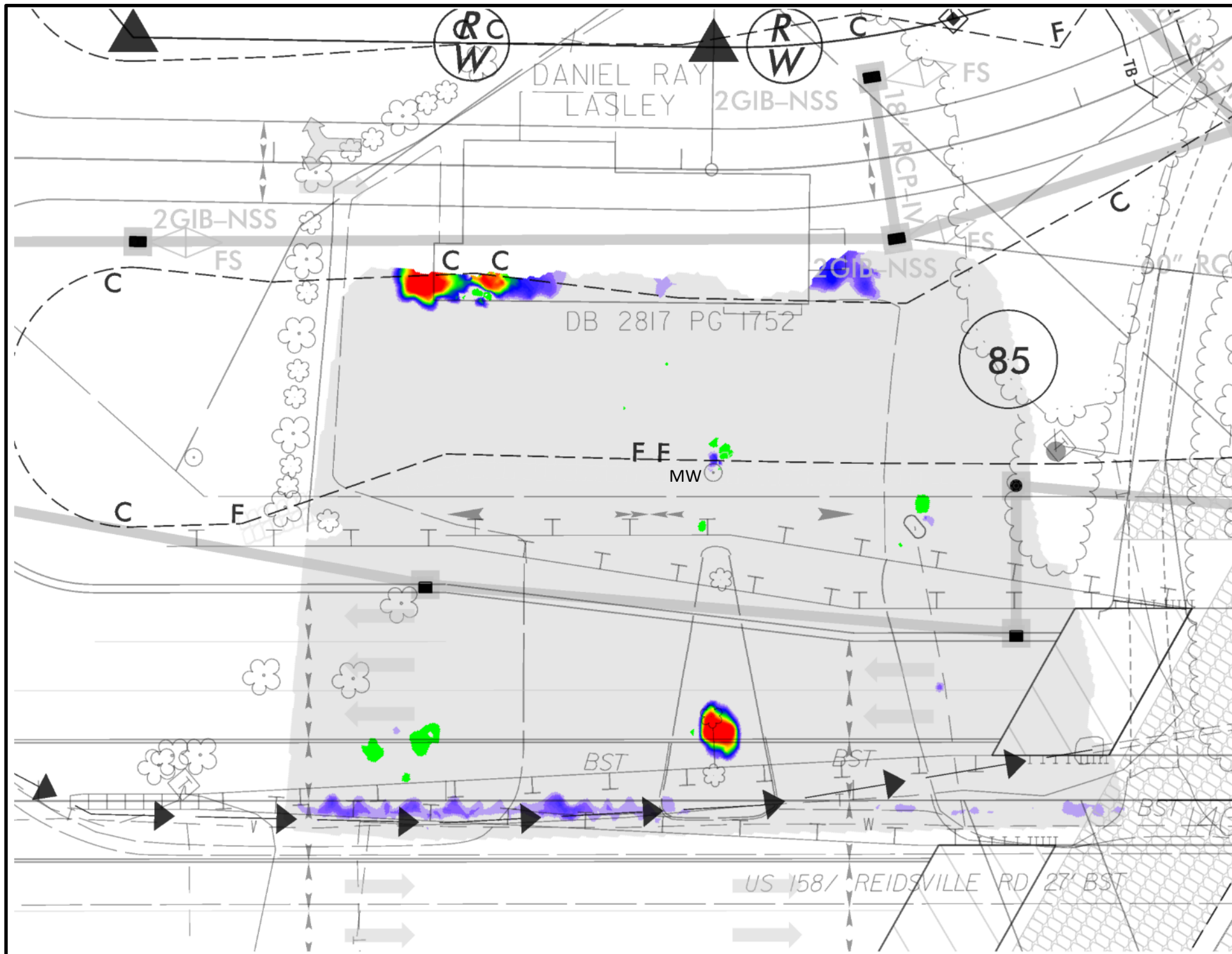
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SCALE	1" = 30'
DATE	5/29/2020
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**FIGURE 5 – PARCEL 85, DANIEL RAY LASLEY**  
**EM61 EARLY TIME GATE DATA ON PLAN SHEET**

**NCDOT PROJECT R-2577A**  
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- R-2577A\_Geo\_env.dgn
- R-2577A\_hyd\_drn.dgn
- R2577A\_ncdot\_fs.dgn
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- R-2577A\_rdy\_ss.dgn



See Figure 9 for explanation of symbols and line types

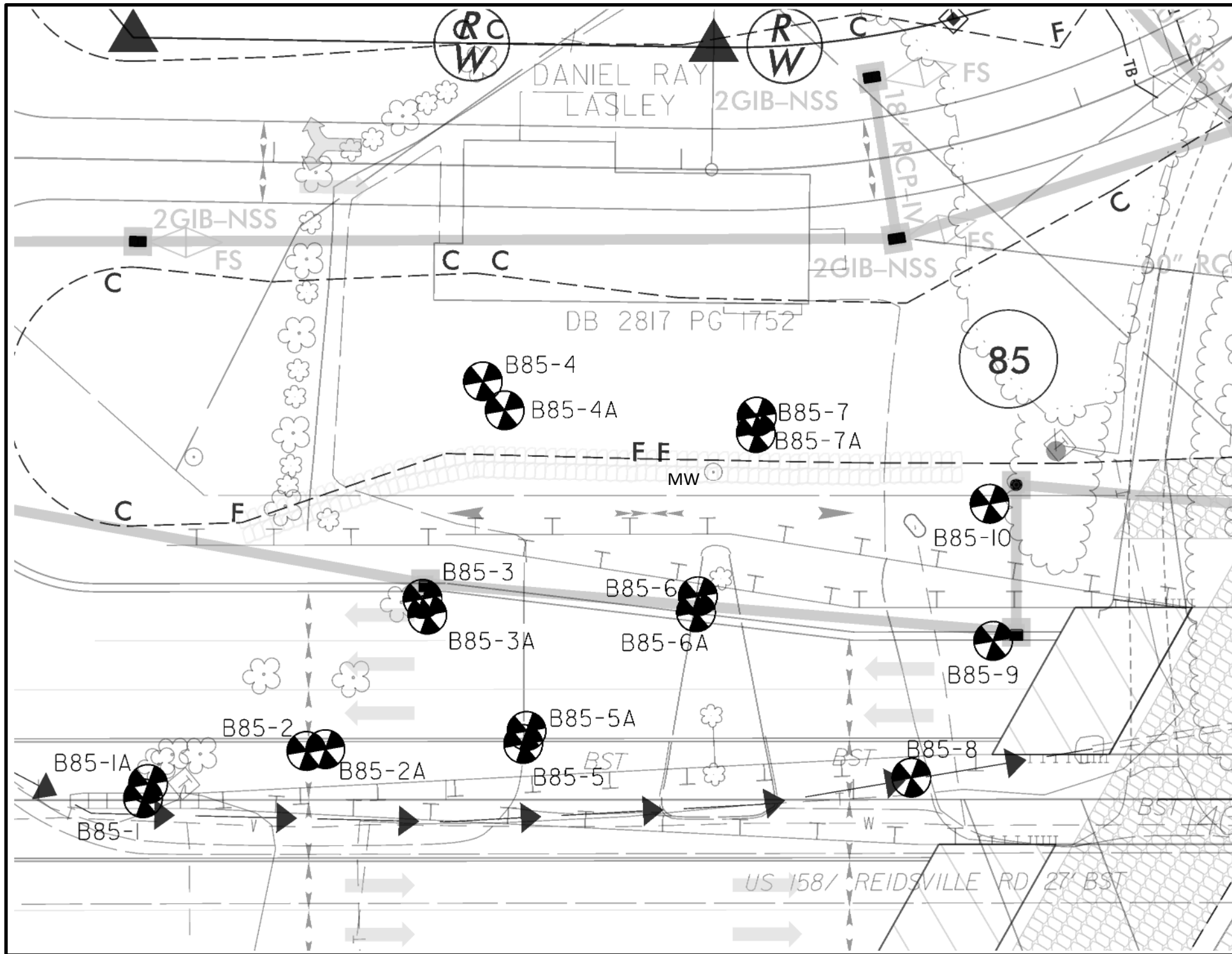
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DATE	5/29/2020
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**FIGURE 6 – PARCEL 85, DANIEL RAY LASLEY**  
**EM61 DIFFERENTIAL DATA ON PLAN SHEET**

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- R-2577A\_Geo\_env.dgn
- R-2577A\_hyd\_drn.dgn
- R2577A\_ncdot\_fs.dgn
- R-2577A\_rdy\_dsn.dgn
- R-2577A\_rdy\_dsn\_driveways.dgn
- R-2577A\_rdy\_dsn\_guardrail.dgn
- R-2577A\_rdy\_HISTORIC.dgn
- R-2577A\_rdy\_map\_owner\_no.dgn
- R-2577A\_rdy\_row.dgn
- R-2577A\_rdy\_row\_AG.dgn
- R-2577A\_rdy\_row\_SB.dgn
- R-2577A\_rdy\_ss.dgn



See Figure 9 for explanation of symbols and line types

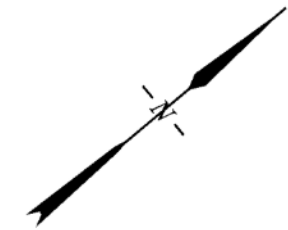
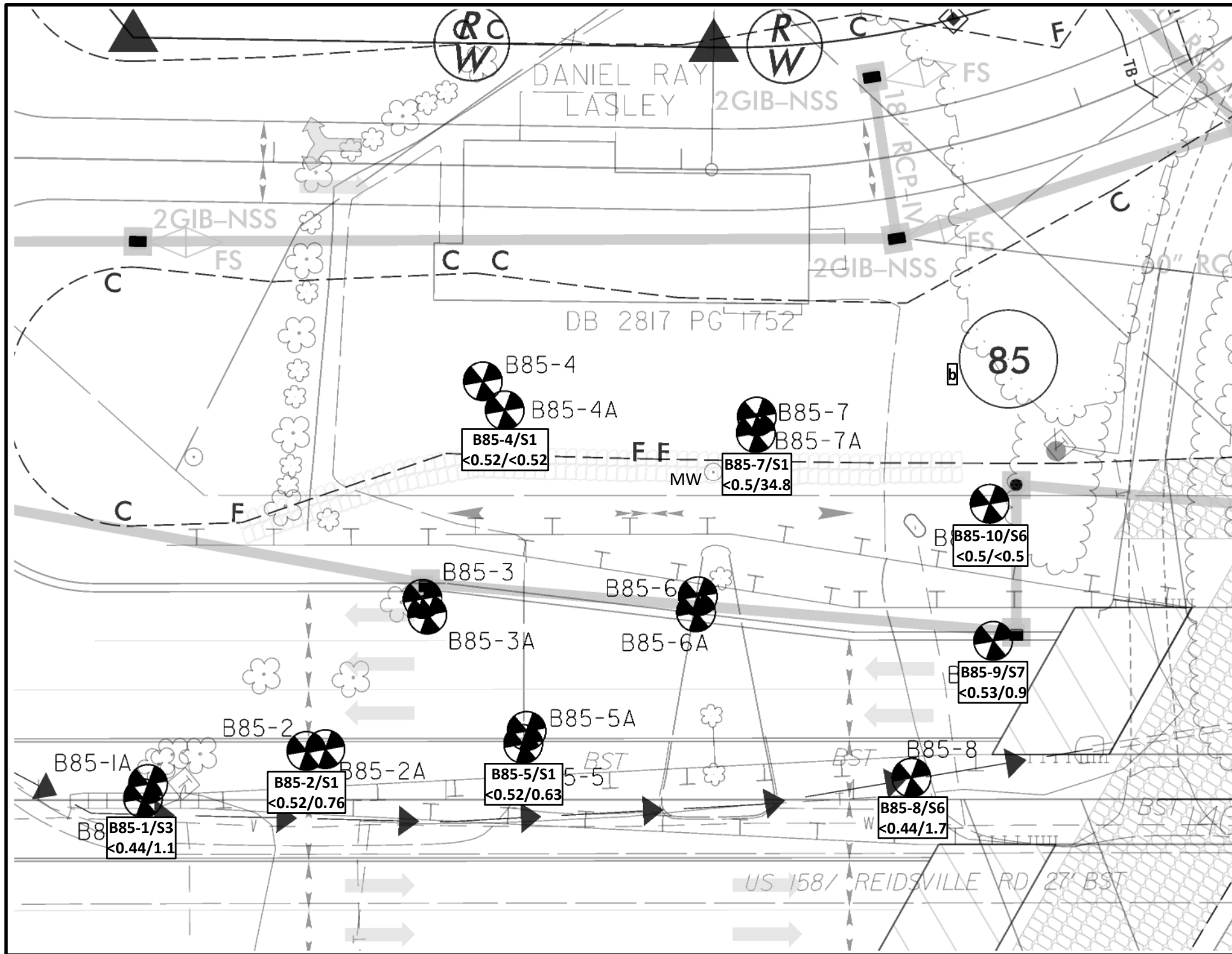
PROJECT NO.	GR22.325
SCALE	1" = 30'
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**FIGURE 7 – PARCEL 85, DANIEL RAY LASLEY  
BORING LOCATIONS ON PLAN SHEET**

**NCDOT PROJECT R-2577A  
US 158 FROM NORTH OF US 421 TO SR 1965  
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Explanation	
<b>Maximum Analytical Results per Boring</b>	
<b>B85-1/S3</b>	<b>&lt;0.44/1.1</b>
	Boring No./Sample No. GRO/DRO (mg/kg, ppm)

- R-2577A\_Geo\_env.dgn
- R-2577A\_hyd\_drn.dgn
- R2577A\_ncdot\_fs.dgn
- R-2577A\_rdy\_dsn.dgn
- R-2577A\_rdy\_dsn\_driveways.dgn
- R-2577A\_rdy\_dsn\_guardrail.dgn
- R-2577A\_rdy\_HISTORIC.dgn
- R-2577A\_rdy\_map\_owner\_no.dgn
- R-2577A\_rdy\_row.dgn
- R-2577A\_rdy\_row\_AG.dgn
- R-2577A\_rdy\_row\_SB.dgn
- R-2577A\_rdy\_ss.dgn



See Figure 9 for explanation of symbols and line types

PROJECT NO.	GR22.325
SCALE	1" = 30'
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**FIGURE 8 – PARCEL 85, DANIEL RAY LASLEY  
SOIL ANALYTICAL RESULTS ON PLAN SHEET**

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12/2/2016

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO. SHEET NO.

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Computed Property Corner	-----
Property Monument	⊠
Parcel/Sequence Number	Ⓜ
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	-o-o-o-
Proposed Chain Link Fence	-□-□-□-
Proposed Barbed Wire Fence	-◇-◇-◇-
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Existing Historic Property Boundary	-----
Known Contamination Area: Soil	-S-S-S-
Potential Contamination Area: Soil	-S-S-S-
Known Contamination Area: Water	-W-W-W-
Potential Contamination Area: Water	-W-W-W-
Contaminated Site: Known or Potential	☠☠

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or U/G Tank Cap	⊙
Sign	⊙
Well	⊙
Small Mine	⊙
Foundation	⊠
Area Outline	⊠
Cemetery	⊠
Building	⊠
School	⊠
Church	⊠
Dam	⊠

**HYDROLOGY:**

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	-----
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

**RIGHT OF WAY & PROJECT CONTROL:**

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easment Pin and Cap	◇
New Permanent Easment Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊙
Pavement Removal	-----

**VEGETATION:**

Single Tree	⊙
Single Shrub	○

Note: Not to Scale \*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

**EXISTING STRUCTURES:**

MAJOR:	-----
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	-----
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

**UTILITIES:**

POWER:	-----
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

**TELEPHONE:**

Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

**WATER:**

Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

**TV:**

TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

**GAS:**

Gas Valve	-----
Gas Meter	-----
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----

**SANITARY SEWER:**

Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

**MISCELLANEOUS:**

Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
U/G Test Hole LOS A (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PROJECT NO.	GR22.325
SCALE	N/A
DATE	5/29/2020
BY	CRP/EDB

**FIGURE 9**  
**LEGEND FOR PLAN SHEET FIGURES**  
**NCDOT PROJECT R-2577A**  
**US 158 FROM NORTH OF US 421 TO SR 1965**  
**FORSYTH COUNTY, NORTH CAROLINA**



ESP Associates, Inc.  
7011 Albert Pick Rd.,  
Suite E  
Greensboro, NC 27409  
336.334.7724  
www.espassociates.com

**APPENDIX A**  
**SOIL BORING LOGS**



# FIELD BORING LOG

BORING NO.

**B85-1**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: South end of parcel near intersection with Belews Creek Road

TYPE OF BORING: Hand Auger DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 3.5 ft

DRILLER: Brian Ewing SAMPLE METHOD: Hand Auger DEPTH TO GW: N/A ft

DRILL RIG: N/A LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 2.0' - Crushed ABC Stone (CR6)	Core 1 Rec N/A Hand Auger 0'-3.5'
1	S-1	1.0-1.5	0.1		B85-1A - Offset 5' Refusal at 3.0'
2	S-2	2.0-2.5	0.2	2.0' - 3.5' - Red-Brown, Sandy SILT, Moist	
3	S-3	3.0-3.5	0.6		
				3.5' - Refusal	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-2**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: Approx. 40 feet NE of B85-1

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 2.0' ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.5' - Topsoil	Core 1 Rec 2.0'/5.0'
				0.5' - 2.0' - Red-Brown to Brown, Clayey and Sandy SILT, Dry	B85-2A - Offset 5'
1	S-1	1.0-1.5	0.4		Refusal at 2.0'
2				2.0' - Refusal	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					





# FIELD BORING LOG

BORING NO.

**B85-3**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: Approx. 40' of B85-2, near proposed drop inlet

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 3.0 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.3' - Topsoil	Core 1 Rec 3.0/5.0'
				0.3' - 3.0' - Brown to Dark Brown, Sandy SILT, Micaceous, Moist	
1	S-1	1.0-1.5	0.2		Attempt to punch through refusal depth with point tip No Penetration
2	S-2	2.0-2.5	0.3		B85-3A - Offset 5' Refusal at 3.0'
3				3.0' - Refusal	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-4**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: Near S. corner of building

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 3.5 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.3' - Gravel	Core 1 Rec 3.0'/5.0'
				0.3' - 3.5' - Red-Brown to White, Black, and Brown, Silty SAND, Dry	B85-4 - Refusal at 1.8'
1	S-1	1.0-1.5	0.6		B85-4A - Offset 5' Refusal at 3.5' Rec 3.0'/3.5'
2	S-2	2.0-2.5	0.2		
3	S-3	3.0-3.5	0.2		
				3.5' - Refusal	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-5**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: Near S edge of S entrance

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 2.2 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.4' - Asphalt	Core 1 Rec 2.0'/5.0'
				0.4- 2.2' - Red-Brown to Brown, White, and Black, Silty SAND, Dry	B85-5A - Offset 5'
1	S-1	1.0-1.5	0.4		Refusal at 2.0'
2				2.2' - Refusal	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-6**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: S side of S entrance near highway

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 5.0 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.4' - Topsoil and Gravel	Core 1 Rec 4.4'/5.0'
				0.4- 5.0' - Dark Brown to Black and White, Sandy SILT, Moist to Dry	
1	S-1	1.0-1.5	0.2		B85-6A - Offset 5' Refusal at 5.0'
2	S-2	2.0-2.5	0.4		
3	S-3	3.0-3.5	0.4		
4	S-4	4.0-4.5	0.4		
5				5.0' - Refusal	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-7**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: Between grassy island and NE corner of building, near former dispenser location

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 2.1 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.4' - Asphalt	Core 1 Rec 1.9/5.0'
				0.4' - 2.1' - Red-Brown, Clayey SILT, Moist	B85-6A - Offset 5'
1	S-1	1.0-1.5	0.6		Refusal at 2.0'
2				2.1' - Refusal	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-8**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: N side of N entrance

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 10.0 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' - 0.8' - Asphalt and Gravel	Core 1 Rec 4.3'/5.0'
1	S-1	1.0-1.5	0.6	0.8' - 2.0' - Red-Brown to Brown, Sandy SILT, Moist	
2	S-2	2.0-2.5	0.5	2.0' - 10.0' - Brown, White, and Black, Silty SAND, with Rock Fragments, Dry	
3	S-3	3.0-3.5	0.5		
4	S-4	4.0-4.5	0.3		
5	S-5	5.0-5.5	0.7	5.0' - grading to with Layers of Brown, Sandy SILT, Moist	Core 2 Rec 3.9'/5.0'
					1st Attempt Rec 2.0'/5.0'
6	S-6	6.0-6.5	0.8		2nd Attempt Rec 3.9'/5.0'
7	S-7	7.0-7.5	0.2		
8	S-8	8.0-8.5	0.5		
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-9**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325

LOCATION: About 40 feet N of B85-8, near proposed drop inlet

TYPE OF BORING: Direct Push DATE STARTED: 5/14/20 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 10.0 ft

DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft

DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' -0.4' - Topsoil	Core 1 Rec 3.2'/5.0'
				0.4' - 10.0' - Red-Brown, Sandy SILT, With Layers of Brown, White, and Black, Silty SAND, Rock Fragments, Dry to Moist	1st Attempt Rec 1.8'/5.0'
1	S-1	1.0-1.5	0.3		2nd Attempt Rec 3.2'/5.0'
2	S-2	2.0-2.5	0.3		
3	S-3	3.0-3.5	0.4		
4					
5	S-5	5.0-5.5	0.6		Core 2 Rec 4.2'/5.0'
					1st Attempt Rec 2.1'/5.0'
6	S-6	6.0-6.5	0.4		2nd Attempt Rec 4.2'/5.0'
7	S-7	7.0-7.5	0.8		
8	S-8	8.0-8.5	0.5		
9					
10					
11					
12					
13					
14					
15					



# FIELD BORING LOG

BORING NO.

**B85-10**

PROJECT NAME: NCDOT R-2577A Phase II PROJ. NO.: GR22.325  
 LOCATION: N end of parcel, near planned drop inlet, in vicinity of former tank pit  
 TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 5/14/20 SHEET: 1 of 1  
 DRILLING FIRM: SAEDACCO DATE FINISHED: 5/14/20 TOTAL DEPTH: 7.0 ft  
 DRILLER: Brian Ewing SAMPLE METHOD: 5' Macrocore DEPTH TO GW: N/A ft  
 DRILL RIG: GeoProbe 722DT LOGGED BY: R. Pastrana COMMENT: \_\_\_\_\_

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0' -0.2' - Topsoil	Core 1 Rec N/A
				0.2' - 7.0' - Red-Brown, Sandy SILT with Layers of Black, White, and Brown, Silty SAND, Micaceous, Moist to Dry	1st Attempt Rec 0.6'/5.0'
1	S-1	1.0-1.5	0.7		2nd Attempt Rec 1.2'/5.0'
					3rd Attempt Hand Auger 0-5'
2	S-2	2.0-2.5	1.3		
3	S-3	3.0-3.5	0.8		
4	S-4	4.0-4.5	0.8		
5	S-5	5.0-5.5	0.7		Core 2 Rec 1.5'/5.0'
					1st Attempt Rec 0.2'/5.0'
6	S-6	6.0-6.5	1.2		2nd Attempt Rec 1.5'/5.0'
7				7.0' - Refusal	
8					
9					
10					
11					
12					
13					
14					
15					



**APPENDIX B**

**RED LAB LABORATORY TESTING REPORT**



### Hydrocarbon Analysis Results

**Client:** ESP  
**Address:** 7011 Albert Pick Rd  
 Ste E  
 Greensboro, NC 27409

**Samples taken** 5/13 - 5/14/2020  
**Samples extracted** 5/13 - 5/14/2020  
**Samples analysed** Monday, May 18, 2020

**Contact:** Ned Billington

**Operator** Harry Wooten

**Project:** GR22.325

										F03640			
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	B85-1 , S3	17.6	<0.44	<0.44	1.1	1.1	0.6	<0.14	<0.018	0	87.4	12.6	Deg.PHC 77%,(FCM)
s	B85-2, S1	21.0	<0.52	<0.52	0.76	0.76	0.39	<0.17	<0.021	0	87.4	12.6	V.Deg.PHC 92.6%,(FCM)
s	B85-4 , S1	21.0	<0.52	<0.52	<0.52	<0.52	<0.1	<0.17	<0.021	0	0	0	PHC not detected
s	B85-5 , S1	20.8	<0.52	<0.52	0.63	0.63	0.33	<0.17	<0.021	0	90.1	9.9	Road Tar 87.1%,(FCM)
s	B85-7 , S1	19.8	<0.5	<0.5	34.8	34.8	17.8	0.92	<0.02	0	91.4	8.6	V.Deg.PHC 77.8%,(FCM)
s	B85-8 , S6	17.6	<0.44	<0.44	1.7	1.7	0.84	<0.14	<0.018	0	86.6	13.4	V.Deg.PHC 90%,(FCM)
s	B85-9 , S7	21.4	<0.53	<0.53	0.9	0.9	0.43	<0.17	<0.021	0	88.1	11.9	Road Tar 89.1%,(FCM)
s	B85-10 , S6	19.8	<0.5	<0.5	<0.5	<0.5	<0.1	<0.16	<0.02	0	0	0	PHC not detected,(BO)
Initial Calibrator QC check										OK			101.5 %
Final FCM QC Check										OK			101.5 %

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content  
 Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library  
 (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present

**APPENDIX C**  
**CHAIN-OF-CUSTODY FORM**

Client Name:	ESP
Address:	Greensboro
Contact:	Ned Billington
Project Ref.:	GR22.325
Email:	ON file
Phone #:	
Collected by:	R. Pastrana

# REDLAB™

RAPID ENVIRONMENTAL DIAGNOSTICS

RED Lab, LLC  
 5598 Marvin K Moss Lane  
 MARBIONC Bldg, Suite 2003  
 Wilmington, NC 28409

Each UVF sample will be analyzed for total BTEX, GRO, DRO, TPH, PAH total aromatics and BaP. Standard GC Analyses are for BTEX and Chlorinated Solvents: VC, 1,1 DCE, 1,2 cis DCE, 1,2 trans DCE, TCE, and PCE. Specify target analytes in the space provided below.

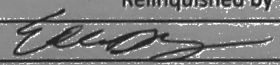

## CHAIN OF CUSTODY AND ANALYTICAL REQUEST FORM

Sample Collection	TAT Requested		Analysis Type		Initials	Sample ID	Total Wt.	Tare Wt.	Sample Wt.
	Date/Time	24 Hour	48 Hour	UVF					
5/14/20			✓		EPS	B85-1, S3	57.8	45.3	12.5
						B85-2, S1	54.2	43.7	10.5
						B85-4, S1	56.3	44.8	10.5
						B85-5, S1	54.7	44.1	10.6
						B85-7, S1	55.4	44.3	11.1
						B85-8, S6	56.9	44.4	12.5
						B85-9, S7	54.2	43.9	10.3
						B85-10, S6	56.0	44.9	11.1

**COMMENTS/REQUESTS:**

\* Report bracketed samples separately

**TARGET GC/UVF ANALYTES:**

Relinquished by	Accepted by	Date/Time	RED Lab USE ONLY
		5/14/20 12:30	
Relinquished by	Accepted by	Date/Time	Ref. No 402

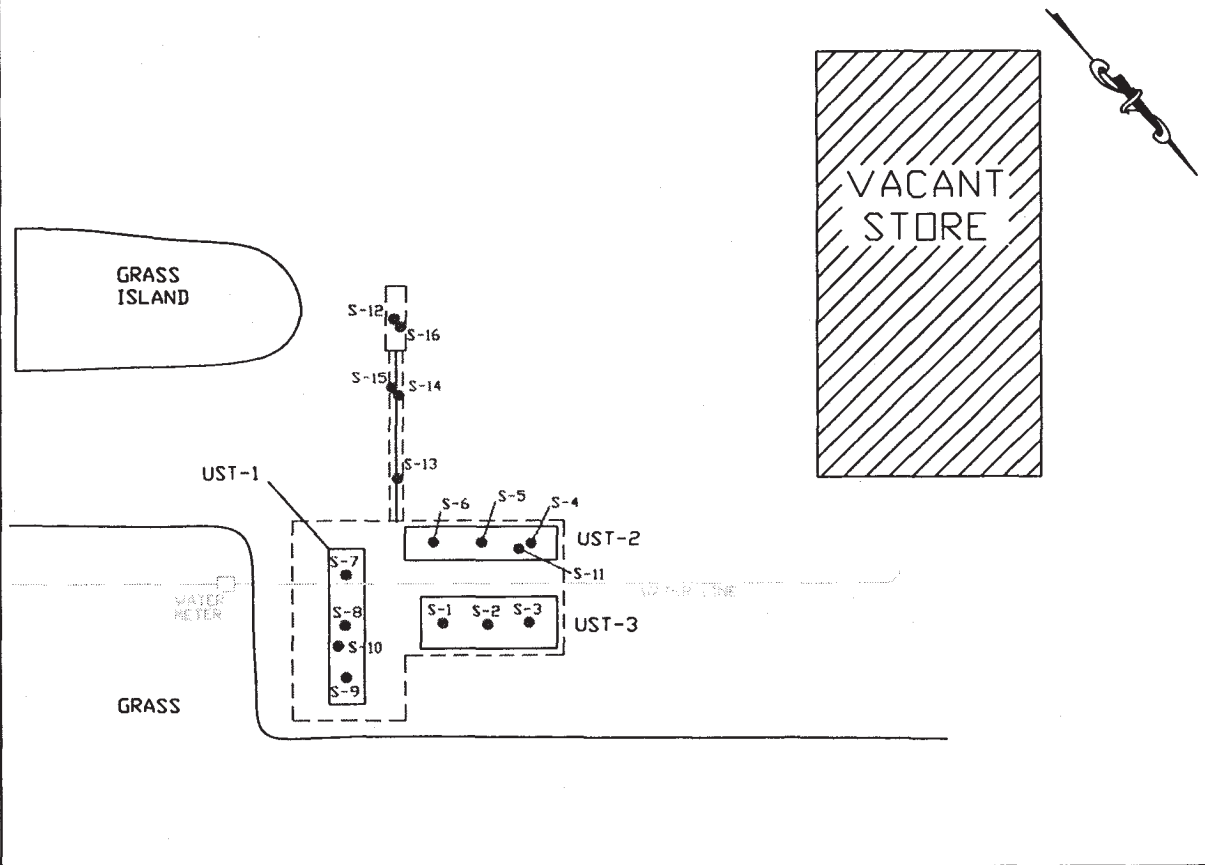
**APPENDIX D**

**2003 UST CLOSURE REPORT FIGURE 2**

**2005 LSA REPORT FIGURE 2**

FILE SITE.DWG	DATE 7/11/03	PROJECT MANAGER CZ	CHECKED BY DH	DRAFTER CZ	PROJECT NUMBER 1625.03A3.DENR
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US 158



LEGEND

- SOIL SAMPLE
- EXCAVATION AREA

FRANKLIN FARM ROAD (PRIVATE)

APPROXIMATE SCALE: 1" = 30'

NOTE: DRAWN BASED ON FIELD MEASUREMENTS



3722 BENSON DRIVE  
RALEIGH, NORTH CAROLINA 27609  
TEL.: (919) 873-1060 FAX.: (919) 873-1074

SITE MAP

HENSDALE GROCERY  
4685 REIDSVILLE ROAD  
WALKERTOWN, NORTH CAROLINA

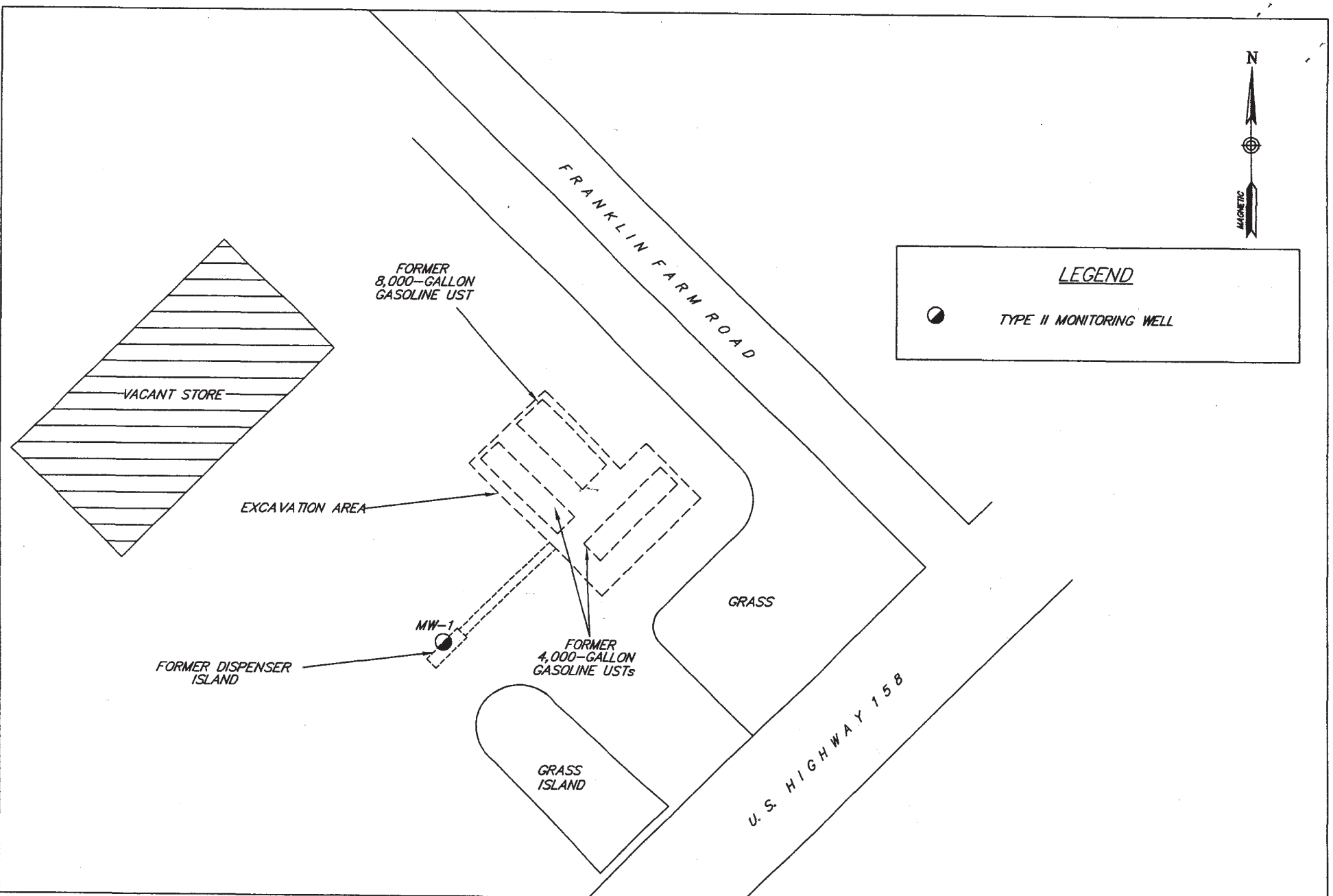
FIGURE:

2



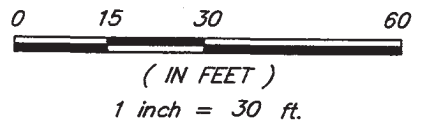
LEGEND

● TYPE II MONITORING WELL



Geological Resources, Inc.

- Environmental and Mining Geologists*
- Charlotte, North Carolina
  - Greensboro, North Carolina
  - Asheville, North Carolina



*SITE MAP*

Hansdale Grocery	4685 Reidsville Road
Walkertown, Forsyth County, NC	Incident # 30195
Date: 01/11/05	Drawn by: RS
	Figure: 2