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 173**
Reidsville Mart (Citgo), HNR Holding LLC
4206 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.

NORTH CAROLINA LICENSED SEAL 1631 GEOLOGIST EDWARD DAVIS BILLINGTON

DocuSigned by:
E. Billington
7402544DC92F4E0...

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

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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 proposed right-of-way (ROW) and proposed permanent utility easement (PUE) (collectively, proposed ROW/easement) of Parcel 173 to locate possible underground storage tanks (USTs), sample soil, and delineate potential contaminated soil. Parcel 173 is located on the south side of Reidsville Road approximately 100 feet northeast of the intersection with Old Belews Creek 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: 8/1/2017
- Current Owner: HNR Holding LLC
- Owner's Address: 371 S. Swing Rd, Greensboro, NC 27409

2.2 NCDEQ Information

This site was listed as Site No. 1 in the 2004 Phase 1 report (GeoEnvironmental Impact Evaluation) that was provided by the NCDOT. Site 1 was anticipated to have low monetary and scheduling impact to the project. We checked the following sources at the NCDEQ with the results summarized below:

- Division of Waste Management Site Locator Tool
    - Indicated Facility ID 16561.
    - UST Incident No. 44096
    - No files in Documents Link.
- NC UST Facility Operating Permits
    - Facility No. 16561 (Reidsville Mart).
- Registered USTs Database
    - 5 USTs listed as current (removed in December 1998).
    - 3 USTs listed as intent to install (current)
        - 14,000-gallon gasoline
        - 3,000-gallon gasoline
        - 3,000-gallon diesel

- Incident Management Database (Regional USTs)
    - UST No. WS-8850
    - Incident Number: 44096
    - Incident Name: Exprez It
    - Date Occurred: 1/23/2013
    - Contamination: Soil
    - Closed out 6/8/2014
- Winston-Salem Regional NCDEQ Office
    - Copy of the May 2014 20-Day and Initial Abatement Action Report
        - Approximately 156 cubic yards of contaminated soil were excavated and disposed of offsite on March 25, 2014.
        - Copies of relevant figures from the above report are included in Appendix D. The former tank pit was located on the southeast side of the current tank pit and outside of the proposed ROW/easement.

3.0 SITE OBSERVATIONS

During our May 2020 field work, the site was occupied by an active gasoline station and market (Reidsville Mart, Citgo) (Figure 2). The ground in the study area was covered by asphalt, concrete, and grass. The proposed PUE goes through the approximate middle of the current tank pit and between the two sets of pumps.

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 0.21 acres and encompassed the proposed ROW/easement. We performed direct-push drilling and sampling of subsurface soils on May 13, 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). Ground-penetrating radar (GPR) data were collected over the tank pit using a Noggin 250 GPR cart to designate the approximate edges of the known tanks. We also used the GPR to attempt to locate the product line(s) from the known tanks to the pumps and to look for abandoned USTs beneath the canopy where the EM61 response was dominated by the response from the reinforced concrete and pump islands.

4.2 Borings

ESP performed direct-push drilling activities within the proposed ROW/easement of Parcel 173 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Eight borings were drilled, designated B173-1 through B173-8, and were approximately evenly spaced over the accessible areas of the site (Figure 8). Boring B173-1 was located near the existing USTs and close to a proposed drop inlet. Boring B173-2 was located near the existing USTs. Boring B173-5 was located close to a proposed drop inlet.

The soil borings were advanced using a GeoProbe 7822DT drill rig. Soil samples were obtained to a maximum depth of approximately 10 feet using two 5-foot long Macro-Core® tubes. Boring B173-5 hit refusal at 3.0 feet below ground surface (bgs) so a second boring was drilled 4 feet closer to the highway where refusal was encountered at 6.0 feet bgs. Refusal was probably due to buried debris or a boulder. Soil cores varied in recovery from 3.4 to 5.0 feet (68 to 100 percent recovery). The sampling equipment was decontaminated prior to drilling and between borings by the driller using a Liquinox® detergent solution.

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 PID readings ranged from 0.1 to 908.4 parts per million (ppm) (Table 1 and Appendix A).

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 8 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 known USTs do not appear to extend outside of the concrete slab over the USTs (Figure 5). The GPR data also did not indicate abandoned USTs beneath the concrete underneath the canopy.

The EM61 early time gate response and differential response are shown on the plan sheet on Figures 6 and 7, respectively.

5.2 Sample Data

The soil sample UVF hydrocarbon analysis results for BTEX, GRO, DRO, and PAHs are presented in Table 2 with maximum GRO and DRO results shown on Figure 9. 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 GRO was detected in one sample with the value above the NCDEQ action level of 50 ppm (79.5 ppm in B173-4, Sample 9) (Table 2, Figure 9). DRO was detected in three samples, with the value in one sample above the NCDEQ action level of 100 ppm (284.1 ppm in B173-4, Sample 9). BTEX was below detection limits for the 8 samples tested. PAHs were detected in 2 samples with values of 0.59 and 1.3 ppm. BaP was not detected in the 8 samples.

6.0 CONCLUSIONS

6.1 Interpretation of Results

The results of the Phase II investigation for Parcel 173 of NCDOT Project R-2577A indicates that there is no evidence for abandoned USTs in the proposed ROW/easement. The 3 known USTs are partially within the proposed PUE. Laboratory testing indicated petroleum compounds in 3 of the 8 soil samples tested with one sample above the NCDEQ action levels for GRO (50 ppm) and DRO (100 ppm). The PID readings during sampling were above 10 ppm in one of the 8 borings (B173-4).

6.2 Estimated Quantities

Based on the laboratory results and PID readings from Boring 173-4, the petroleum contamination appears to extend from approximately 5.0 to 10.0 feet below ground surface with a thickness of approximately 5.0 feet. Using a contaminated soil thickness of 5.0 feet and an area of 317 square feet, the volume of contaminated soil within the proposed ROW in the vicinity of Boring B173-4 is estimated as follows:

- Estimated area of contaminated soil: 317 square feet
- Estimated thickness of contaminated soil: 5.0 feet
- Estimated volume of contaminated soil: 317 square feet * 5.0 feet = 1585 cubic feet = 59 cubic yards.

Assuming 100 pounds per cubic foot, the estimated amount of contaminated soil is approximately:

- 1585 * 100 / 2000 = 79 tons.

7.0 RECOMMENDATIONS

ESP recommends that soil removed from the site as part of NCDOT construction activities in the vicinity of the known USTs, the dispenser islands, and Boring B173-4 be screened for petroleum hydrocarbon contamination, properly handled, segregated, and disposed of in accordance with NCDEQ regulations.

If the final plans indicate that the 3 known USTs and dispensers that are within the proposed ROW/easement will be encountered during construction, the USTs and dispensers should be properly closed by removal prior to construction. Since this is an active gasoline station, arrangements may need to be made for relocating the USTs and dispensers to another location on the parcel.

Groundwater was not encountered in the upper 10 feet in the study area. If groundwater is encountered during construction, it should be screened for petroleum contamination, properly handled, and disposed of in accordance with NCDEQ regulations.

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

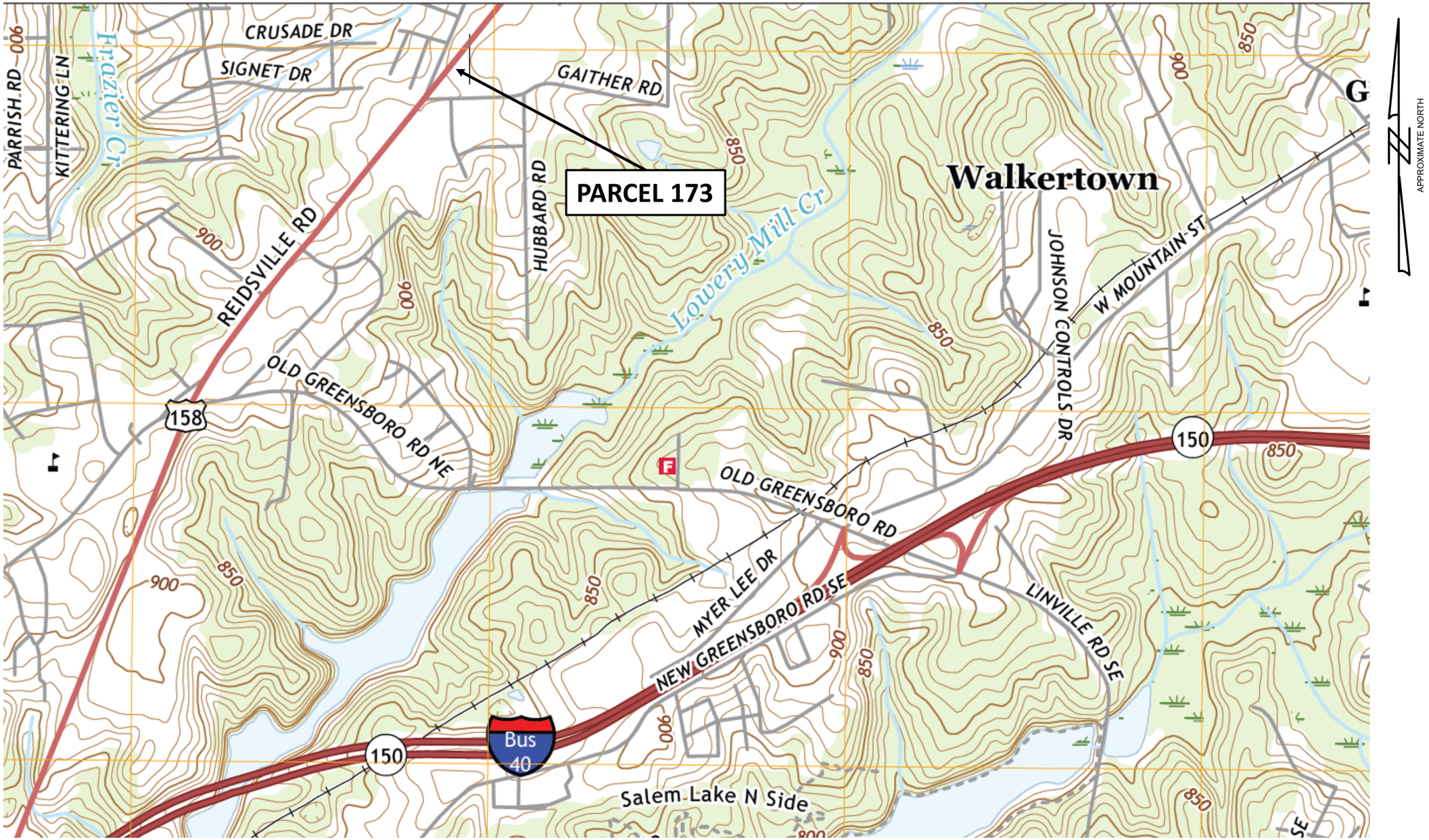
TABLE 1
SOIL SAMPLE PID READINGS

Boring	Sample Depth Range with PID > 10 ppm (feet bgs)	Maximum PID Reading (ppm) and Sample Depth (feet bgs)
B173-1	none	2.8 (1.0-1.5)
B173-2	none	0.4 (1.0-1.5)
B173-3	none	0.4 (1.0-1.5)
B173-4	5.0-10.0	908.4 (8.0-8.5)
B173-5	none	0.6 (2.0-3.5)
B173-6	none	0.7 (2.0-2.5)
B173-7	none	2.6 (8.0-8.5)
B173-8	none	1.5 (2.0-2.5)

TABLE 2
SOIL SAMPLE UVF RESULTS SUMMARY

Boring	Sample ID (depth in feet bgs)	Date Collected	BTEX (C6-C9) (mg/kg)	GRO (C5-C10) (mg/kg)	DRO (C10-C35) (mg/kg)	PAHs (mg/kg)
B173-1	S1 (1.0-1.5)	5/13/20	<0.43	<0.43	53.4	1.3
B173-3	S6 (6.0-6.5)	5/13/20	<0.48	<0.48	<0.48	<0.15
B173-4	S5 (5.0-5.5)	5/13/20	<0.41	<0.41	<0.41	<0.13
B173-4	S9 (9.0-9.5)	5/13/20	<0.88	**79.5**	**284.1**	0.59
B173-6	S2 (2.0-2.5)	5/13/20	<0.43	<0.43	2.1	<0.14
B173-7	S8 (8.0-8.5)	5/13/20	<0.45	<0.45	<0.45	<0.15
B173-8	S4 (4.0-4.5)	5/13/20	<0.45	<0.45	<0.45	<0.14
B173-8	S9 (9.0-9.5)	5/13/20	<0.44	<0.44	<0.44	<0.14

FIGURES



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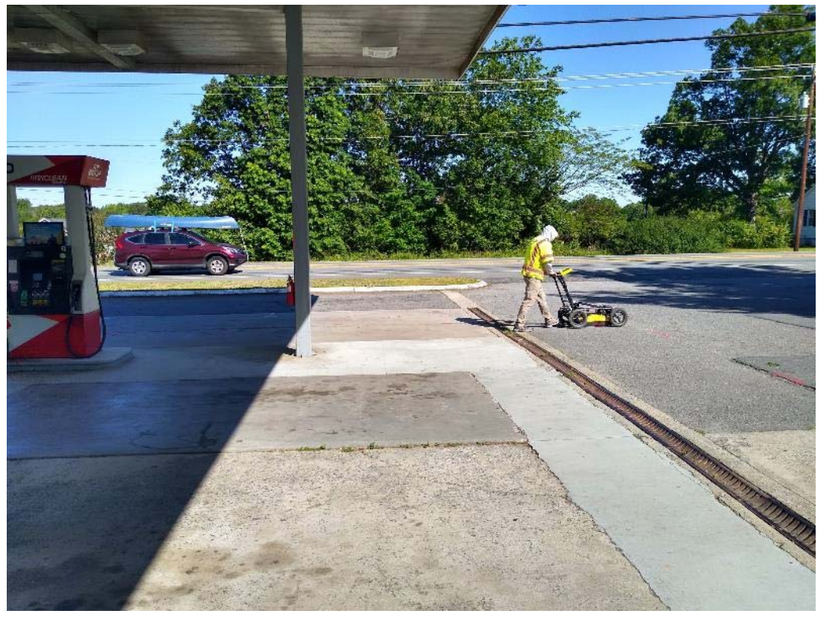
PROJECT NO. GR22.325 SCALE AS SHOWN DATE 5/29/2020 BY CRP/EDB	***FIGURE 1 – PARCEL 173, HNR HOLDING LLC SITE VICINITY MAP*** ***NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA***	ESP Associates, Inc. 7011 Albert Pick Rd., Suite E Greensboro, NC 27409 336.334.7724 www.espassociates.com

A. Photograph from northeast corner of parcel, looking southwest.

B. Photograph from southwest corner of parcel, looking northeast.

C. Photograph of tank bed, looking southeast.



D. Photograph of GPR data collection around known USTs, looking northwest.

PROJECT NO. GR22.325	***FIGURE 2 – PARCEL 173 , HNR HOLDING LLC SITE PHOTOGRAPHS***
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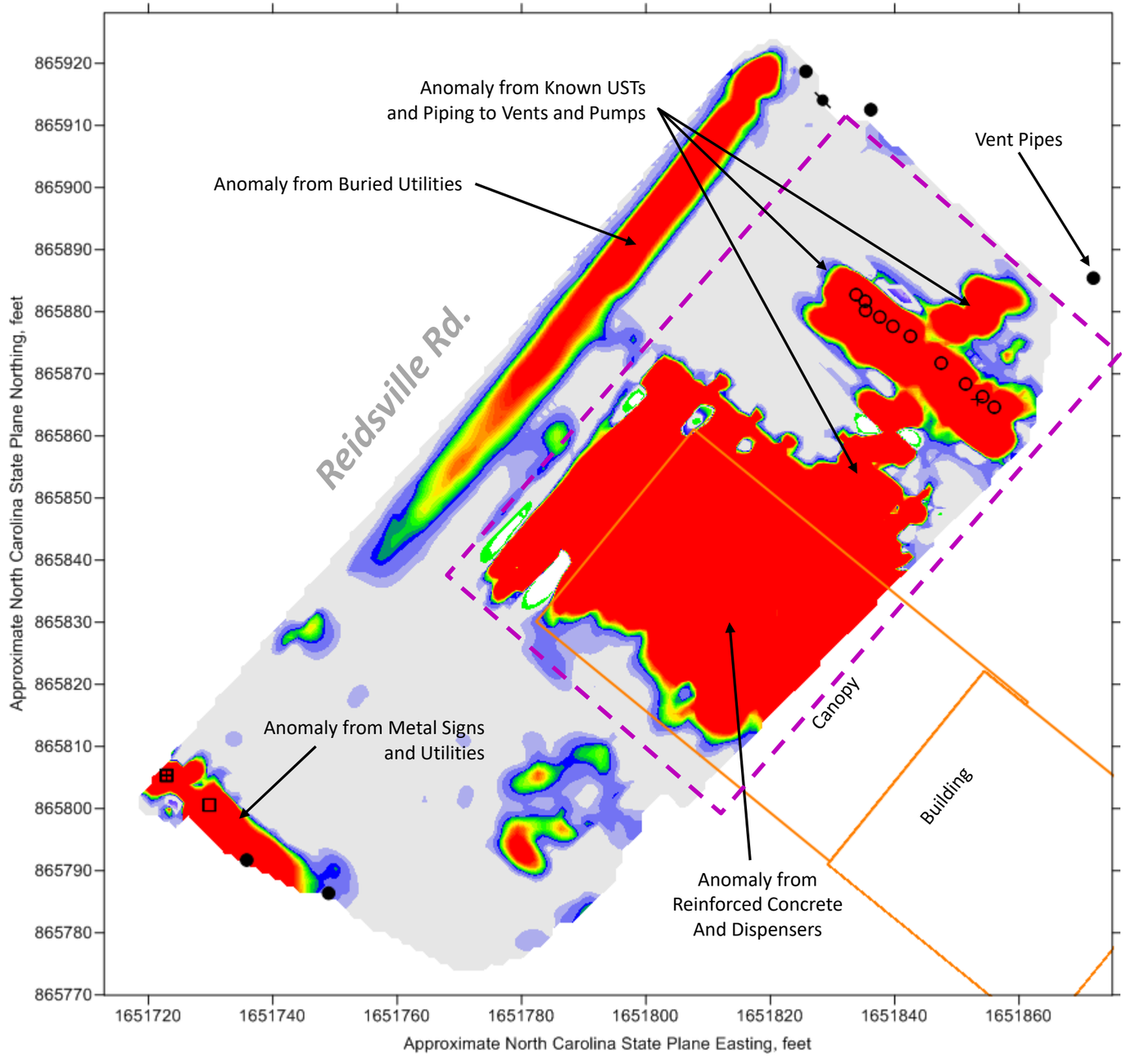

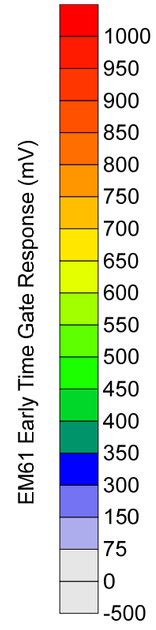

EXPLANATION

- Miscellaneous metal object (pipe, debris, etc.)
- Utility Box (water meter, electrical outlet, etc.)
- Drop Inlet, Catch Basin, Manhole
- Culvert, storm drain pipe
- Utility pole
- Guy wire anchor
- Sign pole, other pole
- UST Fill Port or Valve Cover
- Monitoring Well
- Buried utility line (marked by others)
- EM61 Data Collection Areas
- GPR Data Collection Areas
- Underground Storage Tank

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.

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FIGURE 3 – PARCEL 173 , HNR HOLDING LLC
EM61 EARLY TIME GATE DATA

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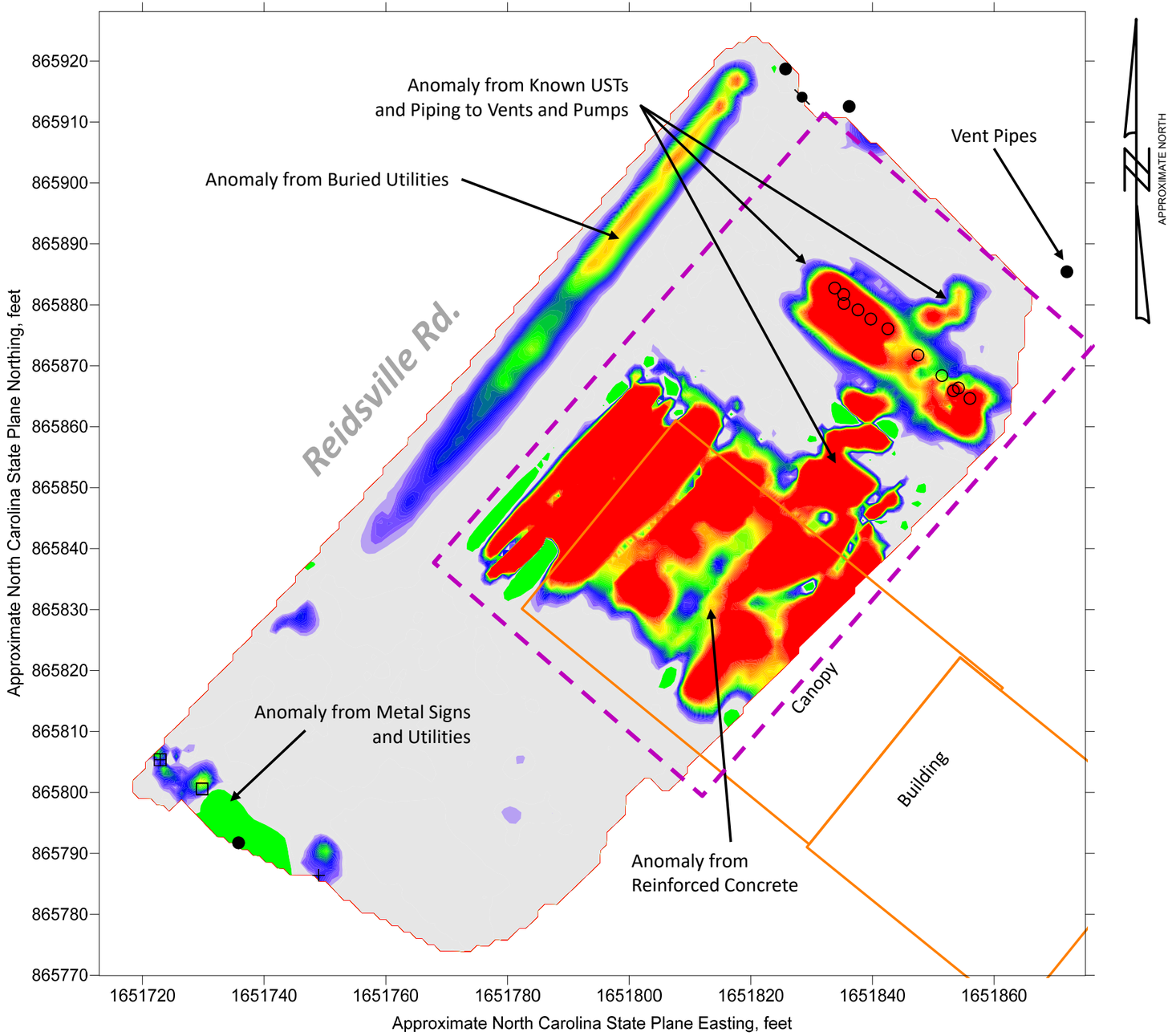

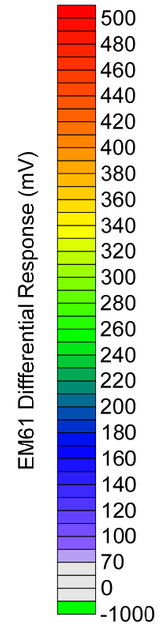

EXPLANATION

- Miscellaneous metal object (pipe, debris, etc.)
- Utility Box (water meter, electrical outlet, etc.)
- Drop Inlet, Catch Basin, Manhole
- Culvert, storm drain pipe
- Utility pole
- Guy wire anchor
- Sign pole, other pole
- UST Fill Port or Valve Cover
- Monitoring Well
- Buried utility line (marked by others)
- EM61 Data Collection Areas
- GPR Data Collection Areas
- Underground Storage Tank

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	***FIGURE 4 – PARCEL 173 , HNR HOLDING LLC EM61 DIFFERENTIAL DATA***
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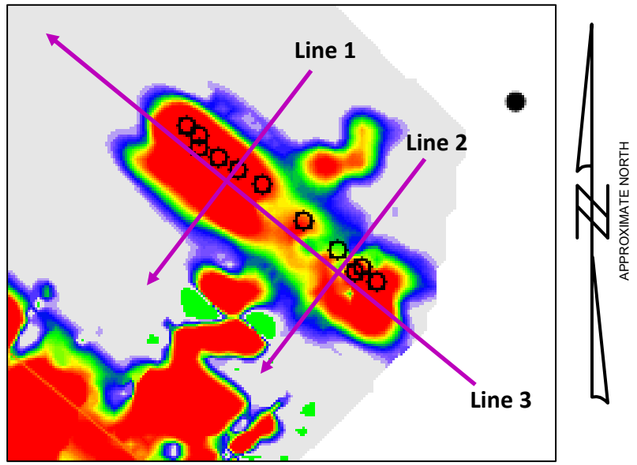
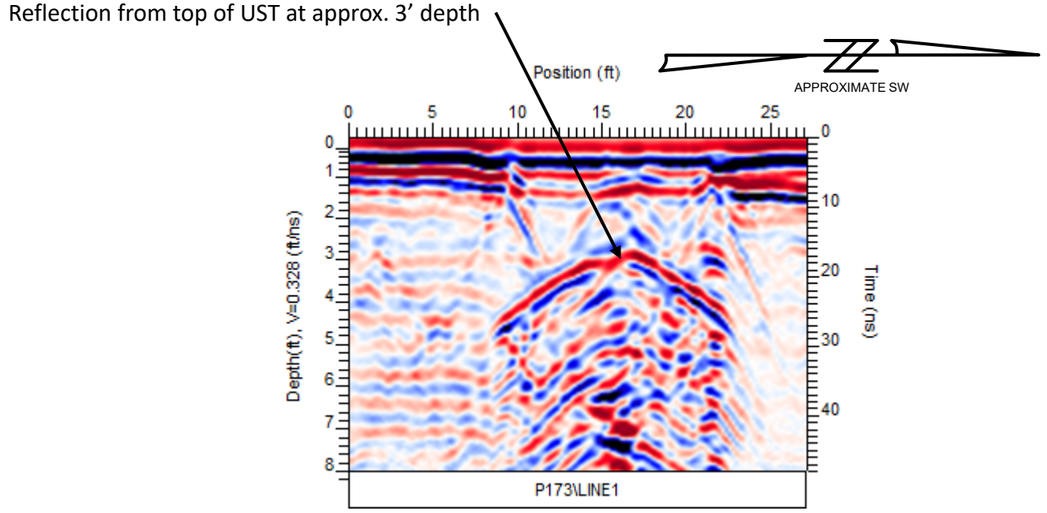
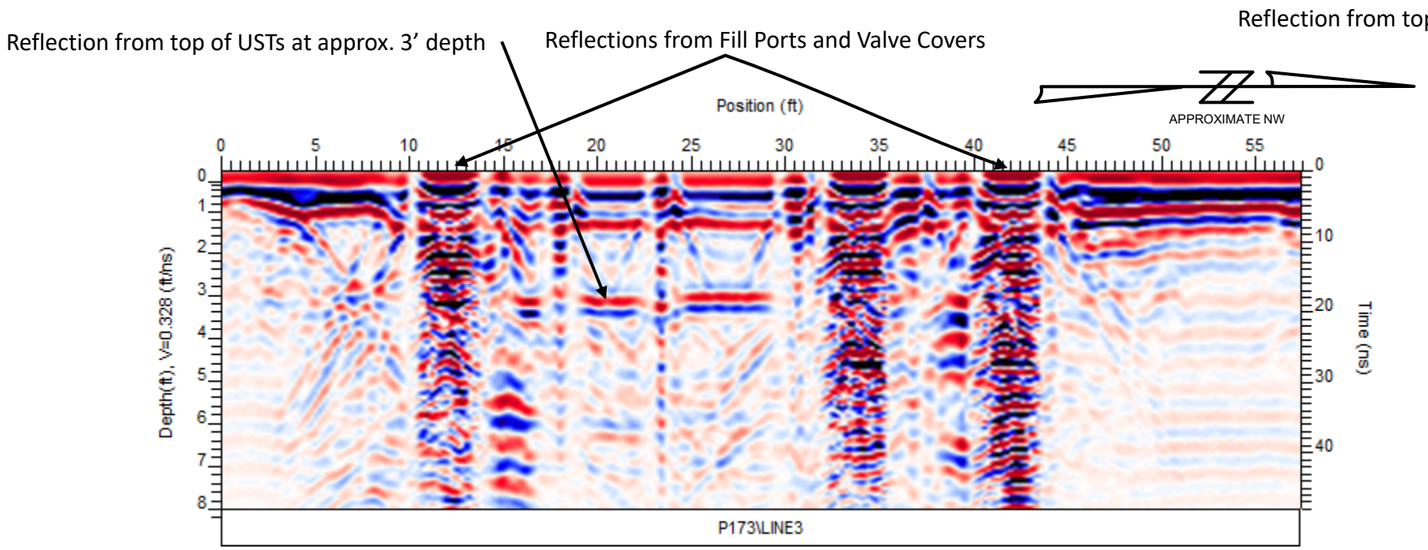


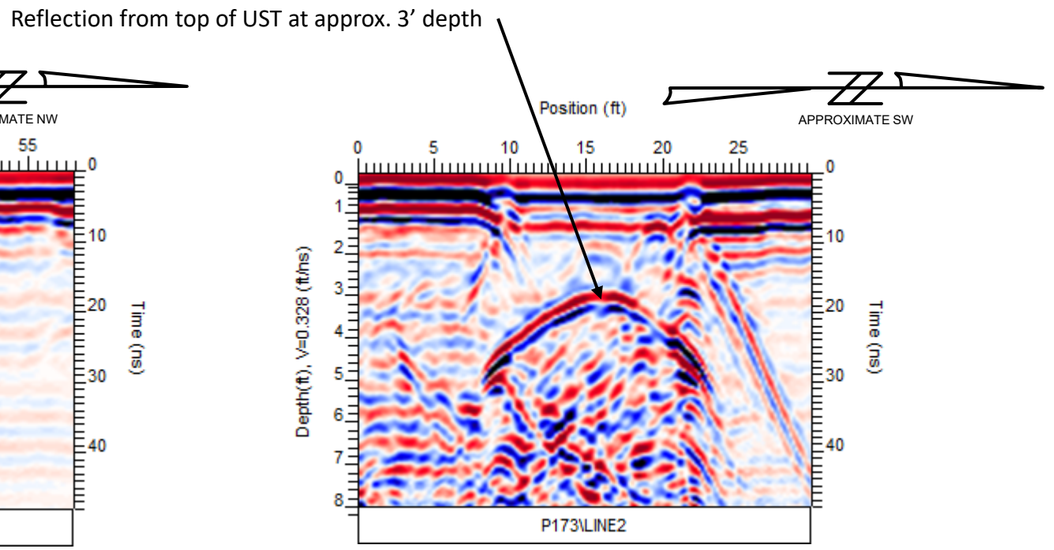
A. EM61 differential data with GPR line locations



B. GPR Line 1 over short axis of 1 of 3 USTs



D. GPR Line 3 over long axis of USTs.



C. GPR Line 2 over short axis of 2 of 3 USTs

PROJECT NO. GR22.325	***FIGURE 5 – PARCEL 173 , HNR HOLDING LLC GPR DATA OVER KNOWN USTS***	ESP Associates, Inc. 7011 Albert Pick Rd., Suite E Greensboro, NC 27409 336.334.7724 www.espassociates.com
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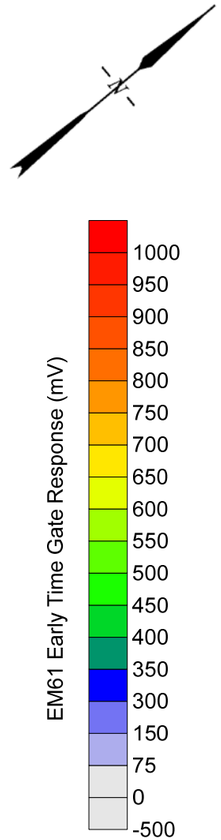

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0 30 60
FEET

See Figure 10 for explanation of symbols and line types

PROJECT NO. GR22.325	***FIGURE 6 – PARCEL 173 , HNR HOLDING LLC EM61 EARLY TIME GATE DATA ON PLAN SHEET***
SCALE 1" = 30'	***NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA***
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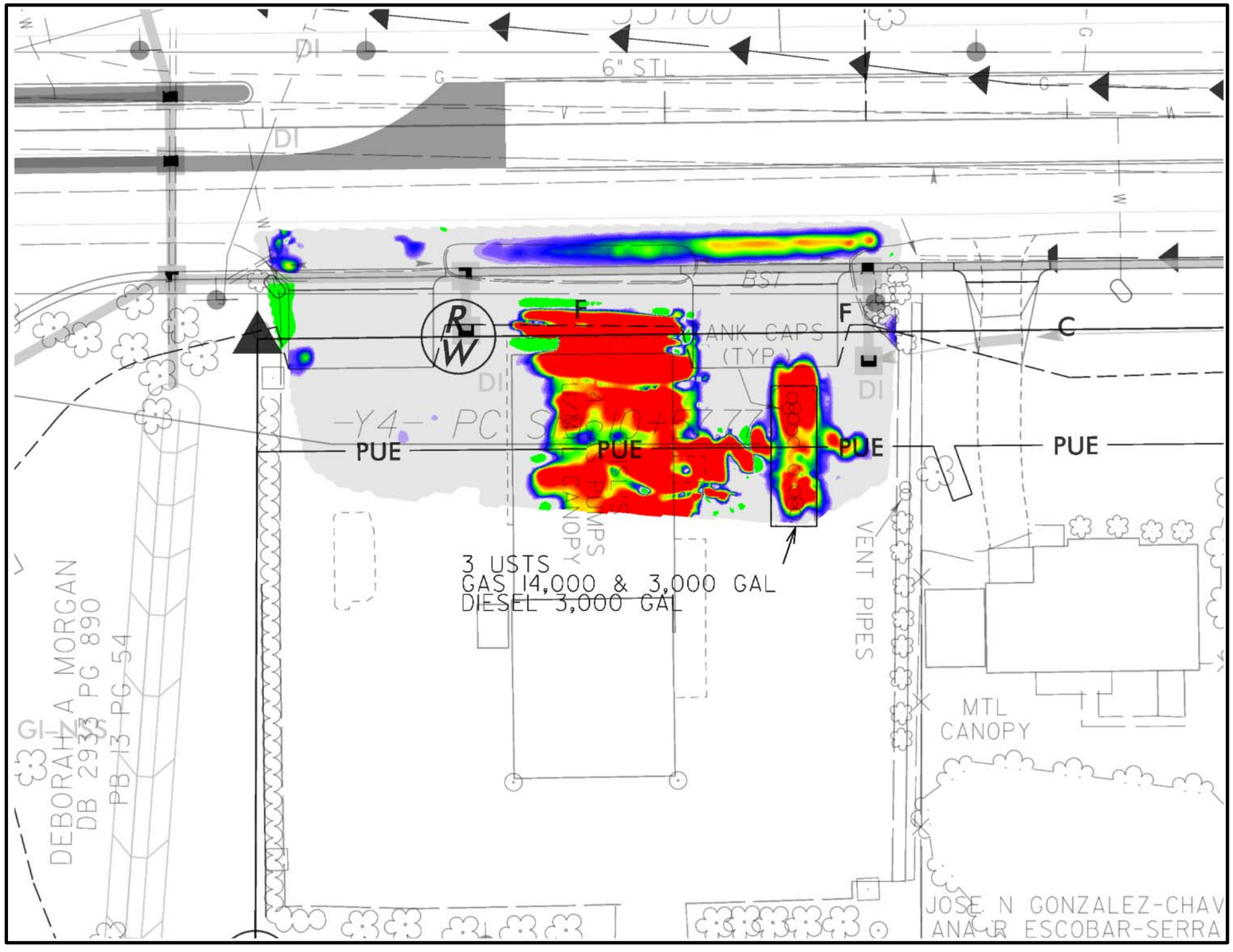

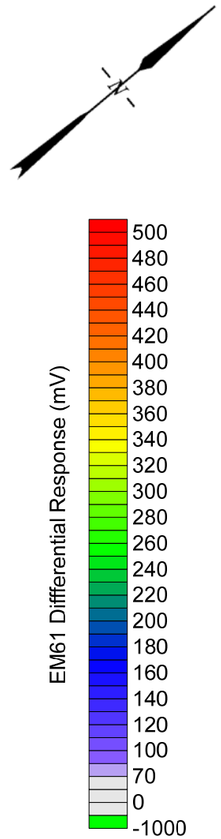

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0 30 60
FEET

See Figure 10 for explanation of symbols and line types

PROJECT NO. GR22.325	***FIGURE 7 – PARCEL 173 , HNR HOLDING LLC EM61 DIFFERENTIAL DATA ON PLAN SHEET***
SCALE 1" = 30'	***NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA***
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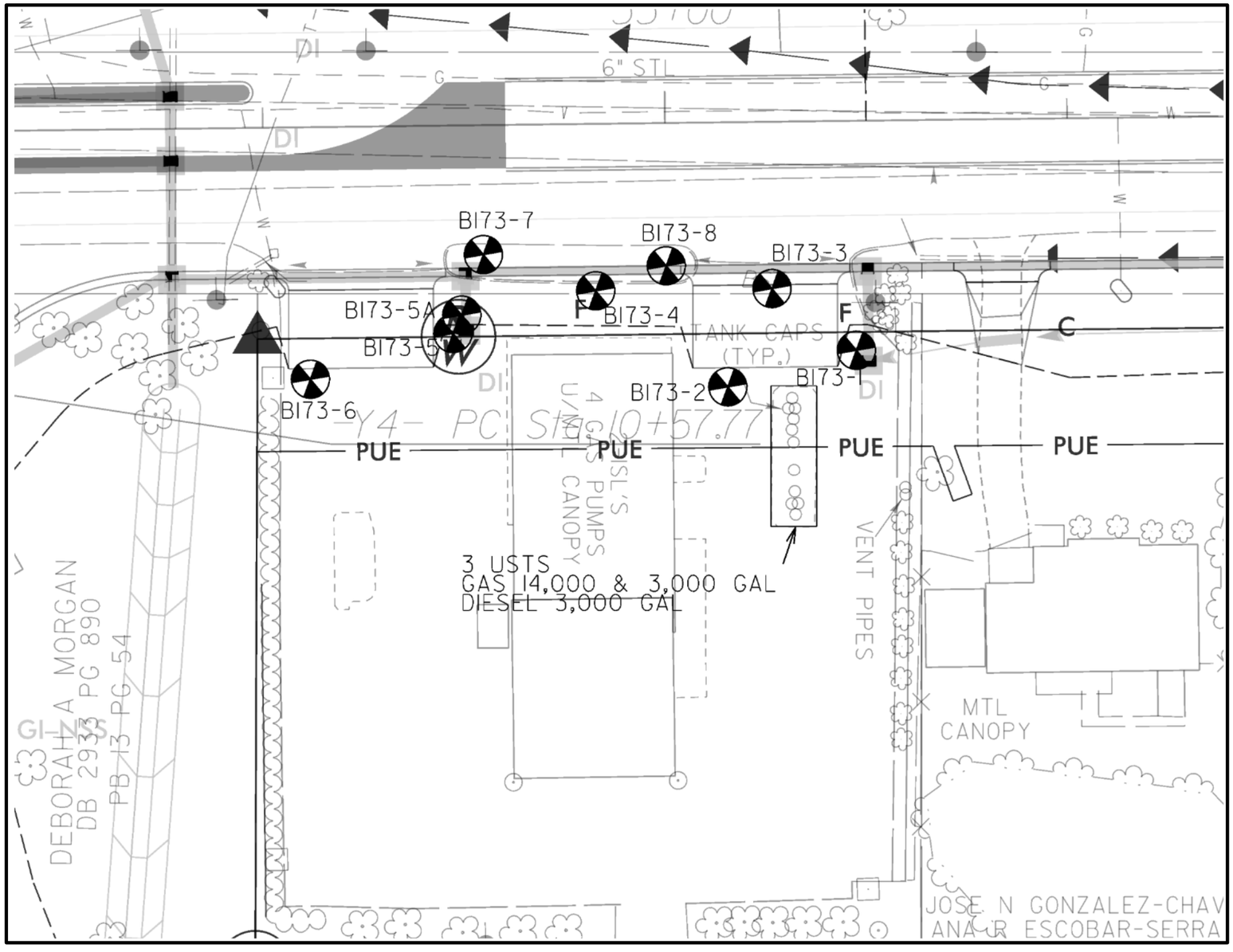

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  - R-2577A_rdy_dsn_guardrail.dgn
  - R-2577A_rdy_HISTORIC.dgn
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  - R-2577A_rdy_row_AG.dgn
  - R-2577A_rdy_row_SB.dgn
  - R-2577A_rdy_ss.dgn

0 30 60
FEET

See Figure 10 for explanation of symbols and line types

PROJECT NO. GR22.325	***FIGURE 8 – PARCEL 173 , HNR HOLDING LLC BORING LOCATIONS ON PLAN SHEET***
SCALE 1" = 30'	***NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA***
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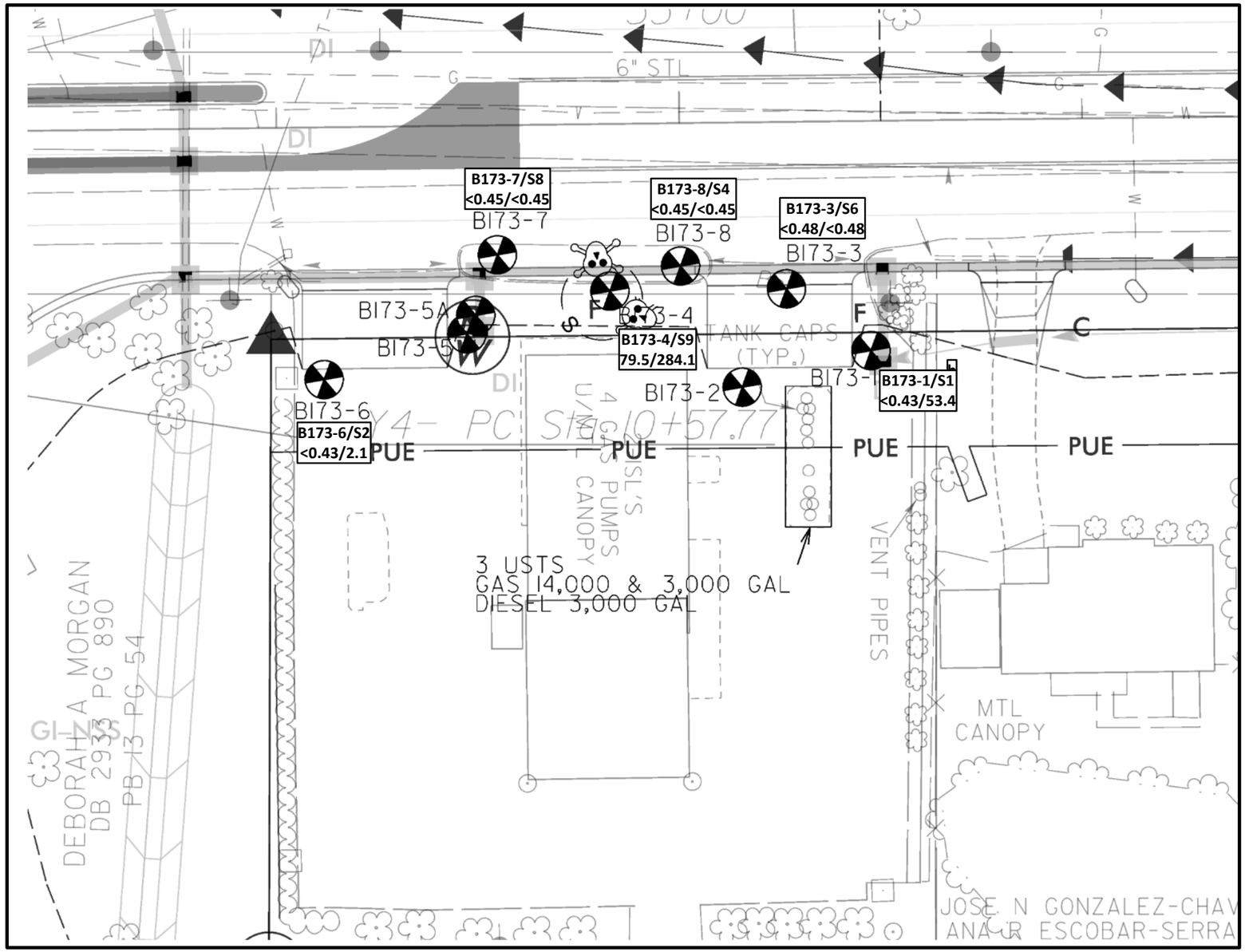


Explanation

Maximum Analytical Results per Boring

B173-1/S1
<0.43/53.4
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

0 30 60
FEET

See Figure 10 for explanation of symbols and line types

PROJECT NO. GR22.325	***FIGURE 9 – PARCEL 173 , HNR HOLDING LLC SOIL ANALYTICAL RESULTS ON PLAN SHEET***
SCALE 1" = 30'	***NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA***
DATE 5/29/2020	
BY CRP/EDB	

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

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.

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

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

BOUNDARIES AND PROPERTY:
- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin (IP)
- Computed Property Corner
- Property Monument (CM)
- Parcel/Sequence Number (123)
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary (W,B)
- Proposed Wetland Boundary (W,B)
- Existing Endangered Animal Boundary (EAB)
- Existing Endangered Plant Boundary (EPB)
- Existing Historic Property Boundary (HPB)
- Known Contamination Area: Soil (S)
- Potential Contamination Area: Soil (S)
- Known Contamination Area: Water (W)
- Potential Contamination Area: Water (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 (JS)
- Buffer Zone 1 (BZ 1)
- Buffer Zone 2 (BZ 2)
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch (Flow)
- False Sump

RAILROADS:
- Standard Gauge (CSX TRANSPORTATION)
- RR Signal Milepost (MILEPOST 35)
- Switch (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 Easement Pin and Cap
- New Permanent Easement Pin and Cap
- Vertical Benchmark
- Existing Right of Way Marker
- Existing Right of Way Line
- New Right of Way Line (RW)
- New Right of Way Line with Pin and Cap (RW)
- New Right of Way Line with Concrete or Granite R/W Marker (RW)
- New Control of Access Line with Concrete C/A Marker (CA)
- Existing Control of Access (CA)
- New Control of Access (CA)
- Existing Easement Line (E)
- New Temporary Construction Easement (E)
- New Temporary Drainage Easement (TDE)
- New Permanent Drainage Easement (PDE)
- New Permanent Drainage / Utility Easement (DUE)
- New Permanent Utility Easement (PUE)
- New Temporary Utility Easement (TUE)
- New Aerial Utility Easement (AUE)

ROADS AND RELATED FEATURES:
- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut (C)
- Proposed Slope Stakes Fill (F)
- Proposed Curb Ramp (CR)
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:
- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard (Vineyard)

EXISTING STRUCTURES:
MAJOR:
- Bridge, Tunnel or Box Culvert (CONC)
- Bridge Wing Wall, Head Wall and End Wall (CONC WW)

MINOR:
- Head and End Wall (CONC HW)
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB (CB)
- Paved Ditch Gutter
- Storm Sewer Manhole (S)
- Storm Sewer (S)

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

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

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

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

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

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

MISCELLANEOUS:
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box (S)
- Utility Unknown U/G Line LOS B (S.U.E.*) (?/U)
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. (UST)
- 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	**FIGURE 10** **LEGEND FOR PLAN SHEET FIGURES**
SCALE N/A	
DATE 5/29/2020	**NCDOT PROJECT R-2577A** **US 158 FROM NORTH OF US 421 TO SR 1965** **FORSYTH COUNTY, NORTH CAROLINA**
BY CRP/EDB	

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. B173-1

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

LOCATION: North corner of parcel at proposed drop inlet

TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1

DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - 0.3' - Asphalt	Core 1 Rec 4.4'/5.0'
				0.3' - 2.4' - Red-Brown Clay, Moist	
1	S-1	1.0-1.5	2.8		
2	S-2	2.0-2.5	0.8		
				2.4' - 9.0' - Red-Brown, Sandy SILT, Trace Mica, Moist	
3	S-3	3.0-3.5	0.3		
4	S-4	4.0-4.5	0.2		
5	S-5	5.0-5.5	0.1		Core 2 Rec 4.7'/5.0'
6	S-6	6.0-6.5	0.1		
7	S-7	7.0-7.5	0.1		
8	S-8	8.0-8.5	0.1		
9	S-9	9.0-9.5	0.2	9.0' -10.0' - Orange, Gray, and White, Silty SAND, Mottled, Moist to Dry	
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-2

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

LOCATION: By west corner of USTs

TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1

DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - 0.3' - Asphalt	Core 1 Rec 4.6'/5.0'
				0.3' - 0.8' - ABC Stone	
				0.8' - 6.7' - Red-Brown, Sandy SILT, Moist	
1	S-1	1.0-1.5	0.4		
2	S-2	2.0-2.5	0.2		
3	S-3	3.0-3.5	0.3		
4	S-4	4.0-4.5	0.2		
5	S-5	5.0-5.5	0.3		Core 2 Rec 4.8'/5.0'
6	S-6	6.0-6.5	0.3		
				6.7' - 10.0' - Orange, Black, Gray, and White, Silty SAND, Mottled, Moist to Dry	
7	S-7	7.0-7.5	0.3		
8	S-8	8.0-8.5	0.2		
9	S-9	9.0-9.5	0.2		
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-3

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Near N corner of parcel by highway
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - 0.3' - Asphalt	Core 1 Rec 3.6'/5.0'
				0.3' - 0.9' - ABC Stone	
				0.9' - 3.2' - Red-Brown, Silty CLAY, Moist	
1	S-1	1.0-1.5	0.4		
2	S-2	2.0-2.5	0.3		
3	S-3	3.0-3.5	0.2		
				3.2' - 6.0' - Red-Brown, Sandy SILT, Moist	
4					
5	S-5	5.0-5.5	0.1		Core 2 Rec 5.0'/5.0'
6	S-6	6.0-6.5	0.3	6.0' - 6.6' - Layer of Coarse Sandy and Pebbles	
				6.6' - 10.0' - Brown to Orange, Gray, and White, Silty SAND, Mottled, Moist to Dry	
7	S-7	7.0-7.5	0.1		
8	S-8	8.0-8.5	0.2		
9	S-9	9.0-9.5	0.1		
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-4

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Center of NW side of parcel, in front of canopy
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - Asphalt	Core 1 Rec 3.2'/5.0'
				0.4' - 0.9' - ABC Stone	
				0.9' - 2.6' - Red-Brown, Silty CLAY, Very Moist	
1	S-1	1.0-1.5	0.8		
2	S-2	2.0-2.5	2.3		
				2.6' - 6.2' - Red-Brown, Sandy SILT, Very Moist	
3	S-3	3.0-3.5	0.6		
4					
5	S-5	5.0-5.5	30.2		Core 2 Rec 5.0'/5.0' with petroleum odor
6	S-6	6.0-6.5	104.6		
				6.2' - 10.0' - Red-Brown to White, Gray, and Black with White, Silty SAND, Mottled, Moist to Dry	
7	S-7	7.0-7.5	224.9		
8	S-8	8.0-8.5	908.4		
9	S-9	9.0-9.5	724.9		
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-5

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Near W corner of canopy
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | TOTAL DEPTH: 6.0 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' - Asphalt	Core 1 Rec 3.4'/5.0'
				0.3' - 0.7' - ABC Stone	
				0.7' - 3.2' - Red-Brown, Silty CLAY, Moist to Very Moist	2nd Attempt - 4' Offset
1	S-1	1.0-1.5	0.3		Refusal at 3.0'
2	S-2	2.0-2.5	0.6		
3	S-3	3.0-3.5	0.6		
				3.2' - 6.0' - Red-Brown, Sandy SILT, Small Rock Fragments, Very Moist to Dry	
4					
5	S-5	5.0-5.5	0.4		Core 2 Rec 1.0'/5.0'
6				6.0' - Refusal	
7					
8					
9					
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-6

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Near SW corner of parcel
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - Asphalt	Core 1 Rec 3.4'/5.0'
				0.4' - 0.8' - ABC Stone	
				0.8' - 2.0' - Red-Brown, Silty CLAY, Moist	
1	S-1	1.0-1.5	0.3		
2	S-2	2.0-2.5	0.7	2.0' - 10.0' - Red-Brown to Brown, Sandy SILT, Some Rock Fragments, Moist to Very Moist	
3	S-3	3.0-3.5	0.4		
4					
5	S-5	5.0-5.5	0.2		Core 2 Rec 4.6'/5.0'
6	S-6	6.0-6.5	0.2		
7	S-7	7.0-7.5	0.4		
8	S-8	8.0-8.5	0.2		
9	S-9	9.0-9.5	0.1		
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-7

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Near B173-5, near proposed drop inlet by highway
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - Asphalt	Core 1 Rec 3.4'/5.0'
				0.4' - 0.9' - ABC Stone	
				0.9' - 5.0' - Red-Brown, Silty CLAY, Moist	
1	S-1	1.0-1.5	0.5		
2	S-2	2.0-2.5	0.4		
3	S-3	3.0-3.5	0.1		
4					
5	S-5	5.0-5.5	1.8	5.0' - 10.0' - Red-Brown to Gray-Brown, Clayey SILT and Silty SAND, Mottled, Moist	Core 2 Rec 4.9'/5.0'
6	S-6	6.0-6.5	0.6		
7	S-7	7.0-7.5	0.4		
8	S-8	8.0-8.5	2.6		
9	S-9	9.0-9.5	2.1		
10					
11					
12					
13					
14					
15					

FIELD BORING LOG

BORING NO. B173-8

PROJECT NAME: NCDOT R-2577A Phase II | PROJ. NO.: GR22.325
LOCATION: Opposite N corner of canopy next to highway
TYPE OF BORING: Direct Push | DATE STARTED: 5/13/20 | SHEET: 1 of 1
DRILLING FIRM: SAEDACCO | DATE FINISHED: 5/13/20 | 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' - 0.3' - Asphalt	Core 1 Rec 4.2'/5.0'
				0.3' - 10.0' - Red-Brown, Sandy SILT, Moist	
1	S-1	1.0-1.5	0.9		
2	S-2	2.0-2.5	1.5		
3	S-3	3.0-3.5	0.7		
4	S-4	4.0-4.5	0.8	4.0' - grading to Micaceous	
5	S-5	5.0-5.5	0.6		Core 2 Rec 4.7'/5.0'
6	S-6	6.0-6.5	0.4	6.0' - grading to Red-Brown, Black and White, Mottled	
7	S-7	7.0-7.5	0.6		
8	S-8	8.0-8.5	0.3		
9	S-9	9.0-9.5	0.6		
10					
11					
12					
13					
14					
15					

APPENDIX B

RED LAB LABORATORY TESTING REPORT

QED REDLAB RAPID ENVIRONMENTAL DIAGNOSTICS AQROS

Hydrocarbon Analysis Results

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

Contact: Ned Billington

Project: GR22.325

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

Operator Harry Wooten

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	B173-1 , S1	17.3	<0.43	<0.43	53.4	53.4	25.7	1.3	<0.017	0	92.6	7.4	V.Deg.PHC 92.5%,(FCM),(BO)
s	B173-3 , S6	19.3	<0.48	<0.48	<0.48	<0.48	<0.1	<0.15	<0.019	0	80	20	PHC not detected
s	B173-4 , S5	16.4	<0.41	<0.41	<0.41	<0.41	<0.08	<0.13	<0.016	0	100	0	PHC not detected
s	B173-4 , S9	35.3	<0.88	79.5	284.1	363.6	15	0.59	<0.035	98.9	1.1	0	Undeg.Kerosene 91.1%,(FCM)
s	B173-6 , S2	17.1	<0.43	<0.43	2.1	2.1	1.1	<0.14	<0.017	0	85.9	14.1	V.Deg.PHC 89.2%,(FCM)
s	B173-7 , S8	18.2	<0.45	<0.45	<0.45	<0.45	<0.09	<0.15	<0.018	0	100	0	PHC not detected
s	B173-8 , S4	17.9	<0.45	<0.45	<0.45	<0.45	<0.09	<0.14	<0.018	0	0	0	PHC not detected
s	B173-8 , S9	17.7	<0.44	<0.44	<0.44	<0.44	<0.09	<0.14	<0.018	0	0	0	PHC not detected,(BO)

Initial Calibrator QC check OK Final FCM QC Check OK 99.7 %

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 Billingsley
Project Ref.:	GR22.325
Email:	on file
Phone #:	on file
Collected by:	R. Pastrana

REDLAB™
RAPID ENVIRONMENTAL DIAGNOSTICS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST FORM

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.

Sample Collection	TAT Requested		Analysis Type		Initials	letter "S" Sample ID	Total Wt.	Tare Wt.	Sample Wt.
Date/Time	24 Hour	48 Hour	UVF	GC					
5/13/20		✓	✓		EDS				
						B173-1, S1	57.1	44.4	12.7
						B173-2, S6	55.4	44.0	11.4
						B173-4, S5	58.2	44.8	13.4
						B173-4, S9	56.4	44.5	11.9
						B173-6, S2 *	57.6	44.7	12.9
						B173-7, S8	57.1	45.0	12.1
						B173-8, S4	56.5	44.2	12.3
						B173-8, S9	55.3	43.7	11.6

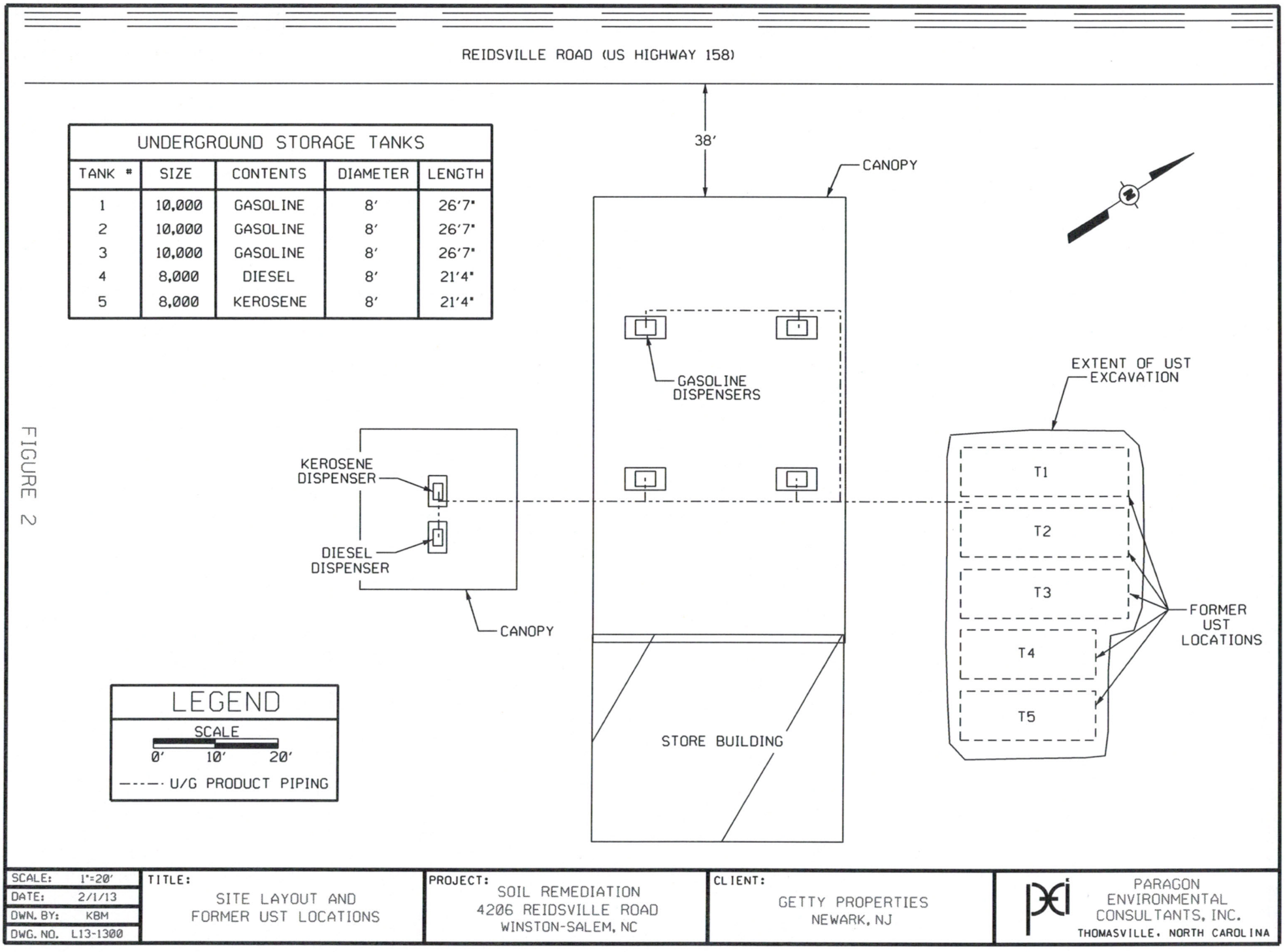
COMMENTS/REQUESTS:
* Report bracketed samples separately

TARGET GC/UVF ANALYTES:

Relinquished by		Accepted by	Date/Time
	5/15/20		5/18/20 12:00
Relinquished by		Accepted by	Date/Time

RED Lab USE ONLY
20
Ref. No H01-02

APPENDIX D
2014 20-DAY AND INITIAL ABATEMENT ACTION REPORT
FIGURES 2 AND 3



UNDERGROUND STORAGE TANKS				
TANK #	SIZE	CONTENTS	DIAMETER	LENGTH
1	10,000	GASOLINE	8'	26'7"
2	10,000	GASOLINE	8'	26'7"
3	10,000	GASOLINE	8'	26'7"
4	8,000	DIESEL	8'	21'4"
5	8,000	KEROSENE	8'	21'4"

FIGURE 2

SCALE: 1"=20'	TITLE: SITE LAYOUT AND FORMER UST LOCATIONS	PROJECT: SOIL REMEDIATION 4206 REIDSVILLE ROAD WINSTON-SALEM, NC	CLIENT: GETTY PROPERTIES NEWARK, NJ	PARAGON ENVIRONMENTAL CONSULTANTS, INC. THOMASVILLE, NORTH CAROLINA
DATE: 2/1/13				
DWN. BY: KBM				
DWG. NO. L13-1300				

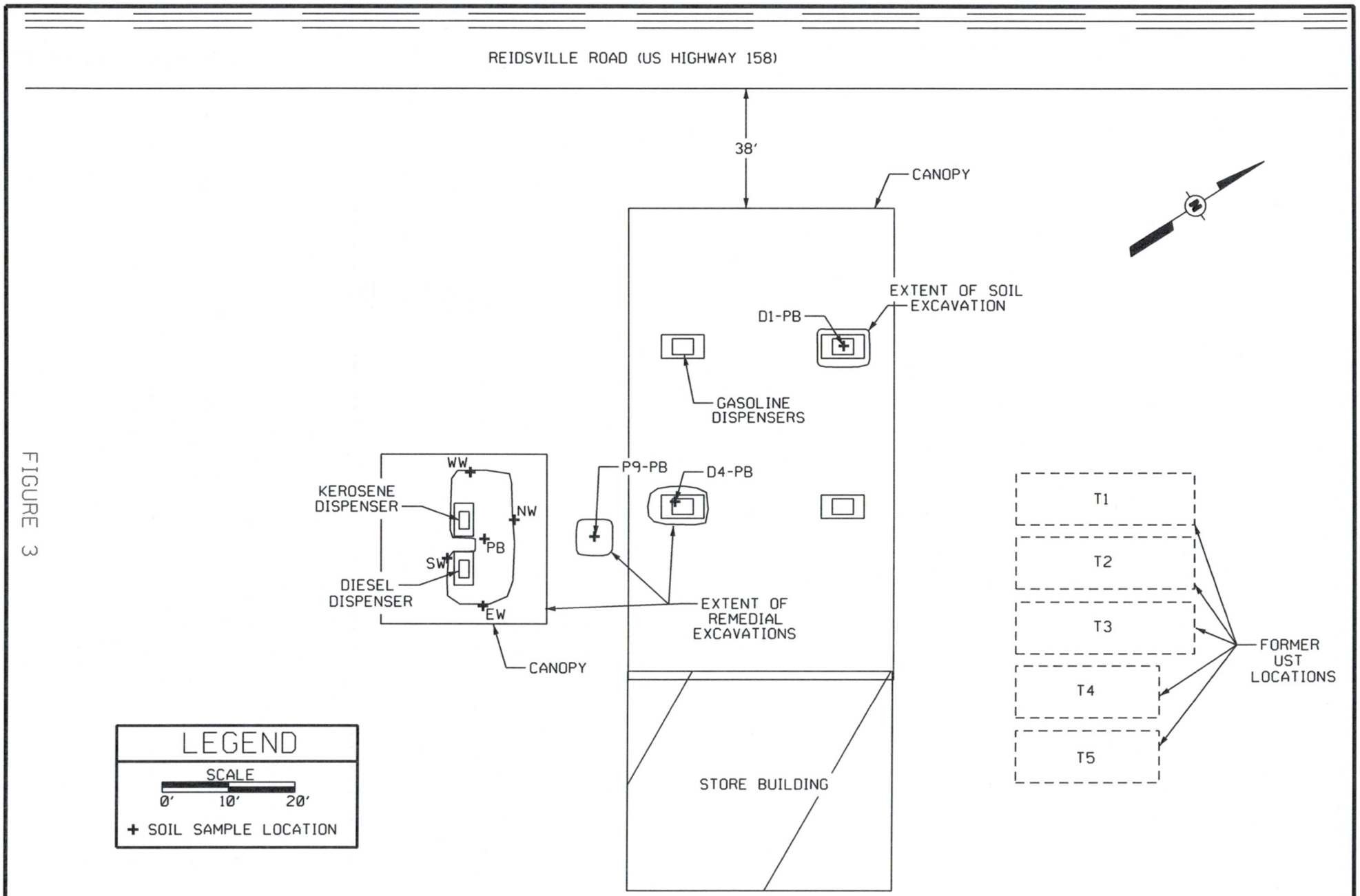


FIGURE 3

SCALE: 1"=20'	TITLE: REMEDIAL EXCAVATION AND SOIL SAMPLE LOCATIONS	PROJECT: SOIL REMEDIATION 4206 REIDSVILLE ROAD WINSTON-SALEM, NC	CLIENT: GETTY PROPERTIES NEWARK, NJ	PARAGON ENVIRONMENTAL CONSULTANTS, INC. THOMASVILLE, NORTH CAROLINA
DATE: 5/7/14				
DWN. BY: BWR				
DWG. NO. L14-1300B				