



March 22, 2022

Mr. Gordon Box, PG
Geotechnical Engineering Unit
North Carolina Department of Transportation
1020 Birch Ridge Drive
Raleigh, NC 27610

**RE: PHASE II INVESTIGATION OF PARCEL 175
Bessemer Improvement Company
3016 Sandy Ridge Road, Colfax, NC 27235
ESP Project No. IS14.314**

TIP Number: U-4758
WBS Number: 40251.1.1
County: GUILFORD
Description: Johnson St – Sandy Ridge Road from Skeet Club Road to I-40

Dear Mr. Box:

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 dated December 7, 2021 and our Cost Proposal dated December 13, 2021.

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/CJW



not considered Final unless all signatures are completed

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to improve Johnson Street – Sandy Ridge Road from Skeet Club Road to I-40 in High Point. 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) for Parcel 175 to locate underground storage tanks (USTs), sample soil, and delineate potential contaminated soil. Parcel 175 is located at 3016 Sandy Ridge Road in Colfax on the east side of Sandy Ridge Road near the intersection with Norcross Road (Figure 1).

2.0 HISTORY

2.1 Phase I Report

According to the *2015 Johnson Street – Sandy Ridge Road Environmental Report for Planning* (Phase I Report) for U-4758, Parcel 175 is a former hydraulic repair and sales business that currently operates as a truck parts specialist. This property appears in the NCDEQ database as Incident No. 6287 (UST #WS-2734). The waste-oil UST leak was reported on 7/18/1990 and was closed out 2/6/2006. This site was anticipated to present low geoenvironmental impacts to the project.

2.2 Background Research

We checked the following online sources with the results summarized below:

- NCDEQ Division of Waste Management Site Locator Tool
 - The site is shown as having had **UST Incident No. 6287**. Linked documents included the following:
 - **UST Closure Report dated July 10, 1990**. This report indicated that (1) 1,000-gallon gasoline UST, (1) 2,000-gallon diesel UST, and (1) 1,000-gallon waste-oil UST were removed (Appendix D1). Soil samples were collected and laboratory analysis did not detect gasoline range organics (GRO) or diesel range organics (DRO) beneath the gasoline and diesel USTs. However, analysis of the bottom soil samples taken from the waste-oil UST pit indicated total petroleum hydrocarbons (TPH) concentrations as oil and grease of 4,016 parts per milligram (ppm), or milligrams per kilogram (mg/kg) at the west end, and 12,982 ppm at the east end, both above the NCDEQ soil quality action level of 25 ppm.
 - **Phase 1 Limited Site Assessment Report (LSA) dated February 1, 2006**. This report indicated that a one temporary monitoring well was installed and one soil boring was drilled at the waste-oil UST location with both groundwater and soil samples collected for laboratory analysis. The results from the soil samples indicated that compounds detected were below the soil-to-groundwater maximum soil contaminant concentrations (MSCCs).

Groundwater samples did not detect any concentrations that exceed the North Carolina Code 2L Drinking Water Standards (NCAC 2L) Standards.

- **Notice of No Further Action dated February 6, 2006.** The NCDEQ classified the site as low risk and issued a notice of No Further Action.
- NCDEQ UST Databases
 - Nothing found for this site.
- Guilford County GIS
 - Property owner is listed as Bessemer Improvement Company.

2.3 Other Information

There was one monitoring well observed on the west side of the parcel, next to Sandy Ridge Road. This is an offsite monitoring well associated with **UST incident No. 44550** for Parcel 176 - Circle K Store 1526 and designated MW-14 (Table 3 and Appendix D2).

- **Ground Monitoring Report dated November 11, 2019.** This is the most recent GW report received by the NCDEQ and addresses GW contamination in the vicinity of the automobile tank pit in the southeastern corner of the Parcel 176. The GW report concluded that dissolved groundwater concentrations for MTBE exceed 2L Standards in monitoring well MW-14 (Appendix D-2). Groundwater flow in the area is generally towards the east-southeast (Appendix D-3). The GW sample results are provided in Appendix D-4 and summarized in Table 3 for MW-14. The closest water-supply wells are located approximately 550 feet downgradient and are used for potable supply.

3.0 SITE OBSERVATIONS

During our February and March 2022 field work, the site contained an active building occupied by the business Truck Parts Specialist (Figure 2 and 3). The ground surface in the study area was covered by grass, gravel, asphalt pavement, and concrete pavement. No evidence was seen for existing USTs. There was one monitoring well (MW-14) observed on site.

4.0 METHODS

ESP performed a geophysical study of the area designated by the NCDOT on February 18 and March 2, 2022. The geophysical investigation area was approximately 0.9 acres and encompassed the accessible areas of the subject parcel. We performed direct-push drilling and sampling of subsurface soils to depths of 10 to 15 feet on March 7, 2022. A photoionization detector (PID) was used to screen soil samples 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 followed by ground-penetrating radar (GPR) data collected over selected EM61 anomalies (Figures 3 and 4). Location control was provided in real-time using a differential global positioning system (DGPS).

4.2 Borings

ESP performed direct-push drilling on Parcel 175 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Ten borings were drilled, designated B175-1 through B175-10 (Figure 7 and Appendix A). The soil borings were advanced using a hand auger and a GeoProbe 54DT drill rig. Soil samples were obtained to a depth of approximately 10 or 15 feet using hand auger cuttings and 5-foot long Macro-Core® tubes. Soil cores varied in recovery from 60 to 96 percent. The sampling equipment was decontaminated prior to drilling and between borings by the driller using Liquinox® detergent solution.

4.3 Soil Sample Protocol

Representative soil samples were taken from hand auger cuttings and the Macro-Core (core) tubes at approximate one-foot intervals by the ESP field geologist while wearing nitrile disposable gloves. Each sample was sealed in a 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 per boring ranged from 0.7 to 2.3 ppm (Table 1).

Eight soil samples were selected for ultraviolet fluorescence (UVF) 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 UVF method for BTEX, GRO, DRO, 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 EM61 data indicated one anomaly at the northeast end of the study area that could not be attributed to known cultural features; GPR data collected over this anomaly indicated that it was caused by reinforced concrete. The GPR data did not indicate buried objects below the concrete slab.

The EM61 early time gate response and differential response are shown on the plan sheet for NCDOT Project U-4758 on Figures 5 and 6.

5.2 Sample Data

The soil sample UVF hydrocarbon analysis results for BTEX, GRO, DRO, and PAHs are presented in Table 2. The RED Lab laboratory report, which also includes results for TPH, total aromatics, and BaP, is provided in Appendix B. Values are provided in mg/kg, or ppm.

5.3 Sample Observations

The results of the laboratory testing indicate that BTEX, GRO, DRO, PAHs, and BaP were below the laboratory detection limits in the 8 samples tested.

6.0 CONCLUSIONS

The results of the Phase II investigation of Parcel 175 for NCDOT Project U-4758 indicate that there is no evidence for USTs in the proposed ROW or proposed PUE. The laboratory testing did not indicate the presence of petroleum compounds above the NCDEQ action levels for GRO or DRO. Groundwater was not encountered in the 10 borings. However, groundwater petroleum contamination is known to be present in MW-14, based on previous investigations associated with Parcel 175.

6.1 Geophysics

The geophysical data did not indicate the presence of abandoned USTs.

6.2 Soil

DRO, GRO, BTEX and PAHs were not detected in any of the soil samples tested.

7.0 RECOMMENDATIONS

No limitations on construction activities or special handling of excavated soil are recommended for Parcel 175.

Groundwater was not encountered in the 10 borings. Based on the planned cut depths and proposed drainage features, it does not appear that groundwater will be encountered during construction. However, if groundwater is encountered during construction, it may be contaminated and should be screened for petroleum hydrocarbons, properly handled, segregated, 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)
B175-1	None	1.7 (12.0 – 12.5)
B175-2	None	2.2 (11.0-11.5)
B175-3	None	2.3 (1.0 – 1.5)
B175-4	None	1.7 (6.0 – 6.5)
B175-5	None	1.2 (11.0 – 11.5)
B175-6	None	0.7 (9.0 – 9.5)
B175-7	None	0.9 (8.0 – 8.5)
B175-8	None	1.0 (6.0 – 6.5)
B175-9	None	0.9 (9.0 – 9.5)
B175-10	None	0.7 (6.0 – 6.5)

TABLE 2
SOIL SAMPLE UVF RESULTS SUMMARY

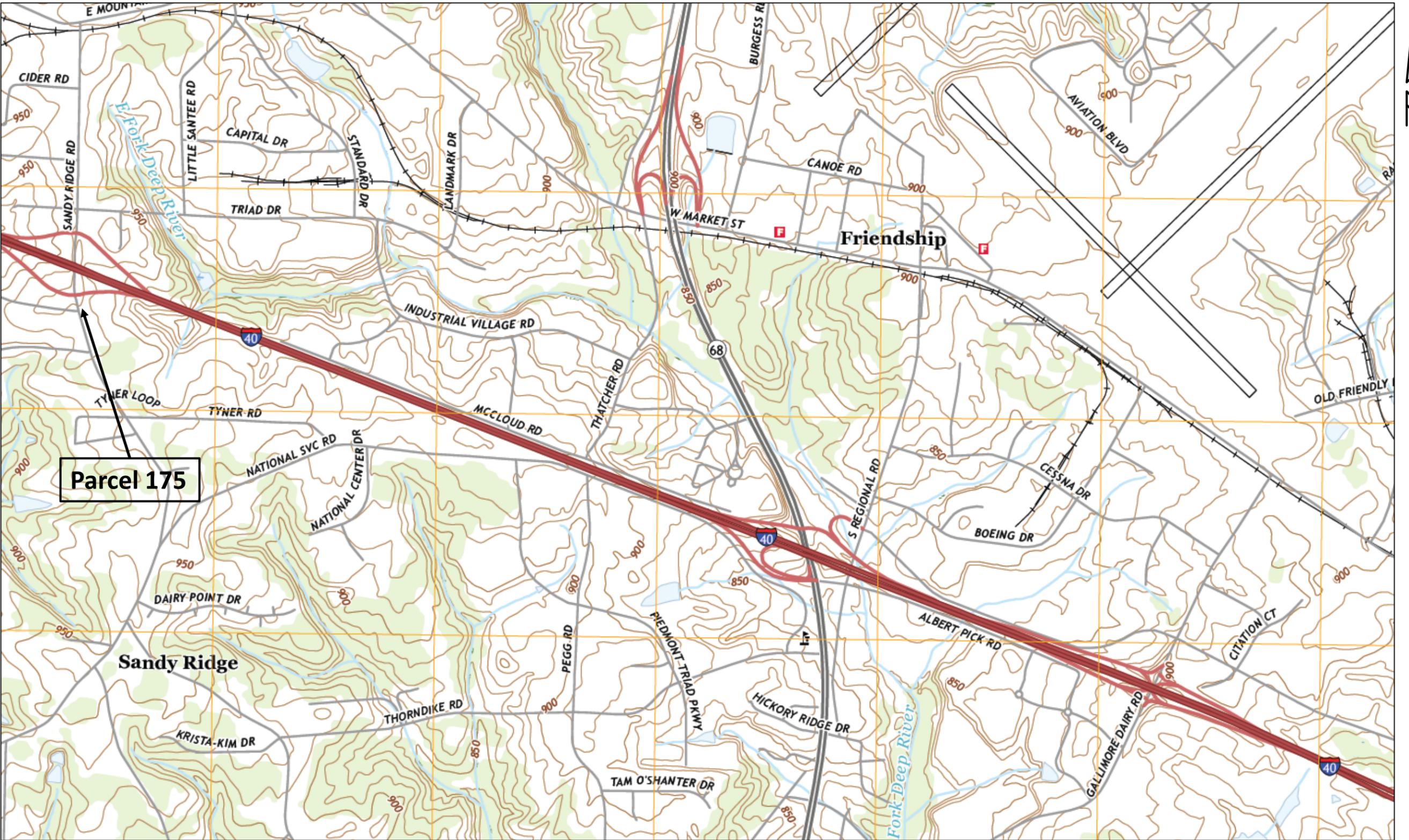
Boring	Sample ID (depth in feet bgs)	Date Collected	BTEX (C6-C9) (mg/kg)	GRO (C5-C10) (mg/kg)	DRO (C10-C35) (mg/kg)	PAHs (mg/kg)
B175-1	S-14	3/7/22	<0.4	<0.4	<0.4	<0.13
B175-2	S-1	3/7/22	<0.64	<0.64	<0.64	<0.2
B175-3	S-14	3/7/22	<0.36	<0.36	<0.36	<0.12
B175-4	S-6	3/7/22	<0.6	<0.6	<0.6	<0.19
B175-5	S-14	3/7/22	<0.74	<0.37	<0.37	<0.12
B175-6	S-7	3/7/22	<0.26	<0.26	<0.26	<0.08
B175-8	S-9	3/7/22	<0.35	<0.35	<0.35	<0.11
B175-10	S-6	3/7/22	<0.2	<0.2	<0.2	<0.07

TABLE 3
MONITORING WELL LOCATION WITH 2019 MONITORING REPORT RESULTS

Monitoring Well	Northing	Easting	Depth to Groundwater, feet	2019 Monitoring Report Results		
				Detected Compound	Detected Level, ug/L	NC 2L Groundwater Standard ug/L
MW-14	853357	1705739	38.77	MTBE	26.7	20

The complete summary of GW sampling results from the 2019 MR for Parcel 176 is provided in Appendix D-4.

FIGURES



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

PROJECT NO.	IS14.314
SCALE	AS SHOWN
DATE	3/22/2022
BY	CRP/EDB

FIGURE 1 – PARCEL 175, BESSEMER IMPROVEMENT CO. SITE VICINITY MAP

NCDOT PROJECT U-4758
JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40
GUILFORD COUNTY, NORTH CAROLINA



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 www.espassociates.com

APPROXIMATE NORTH



A. Photograph from northwest corner of building, facing east.



B. Photograph from west side of parcel, facing east with MW-14 in foreground.

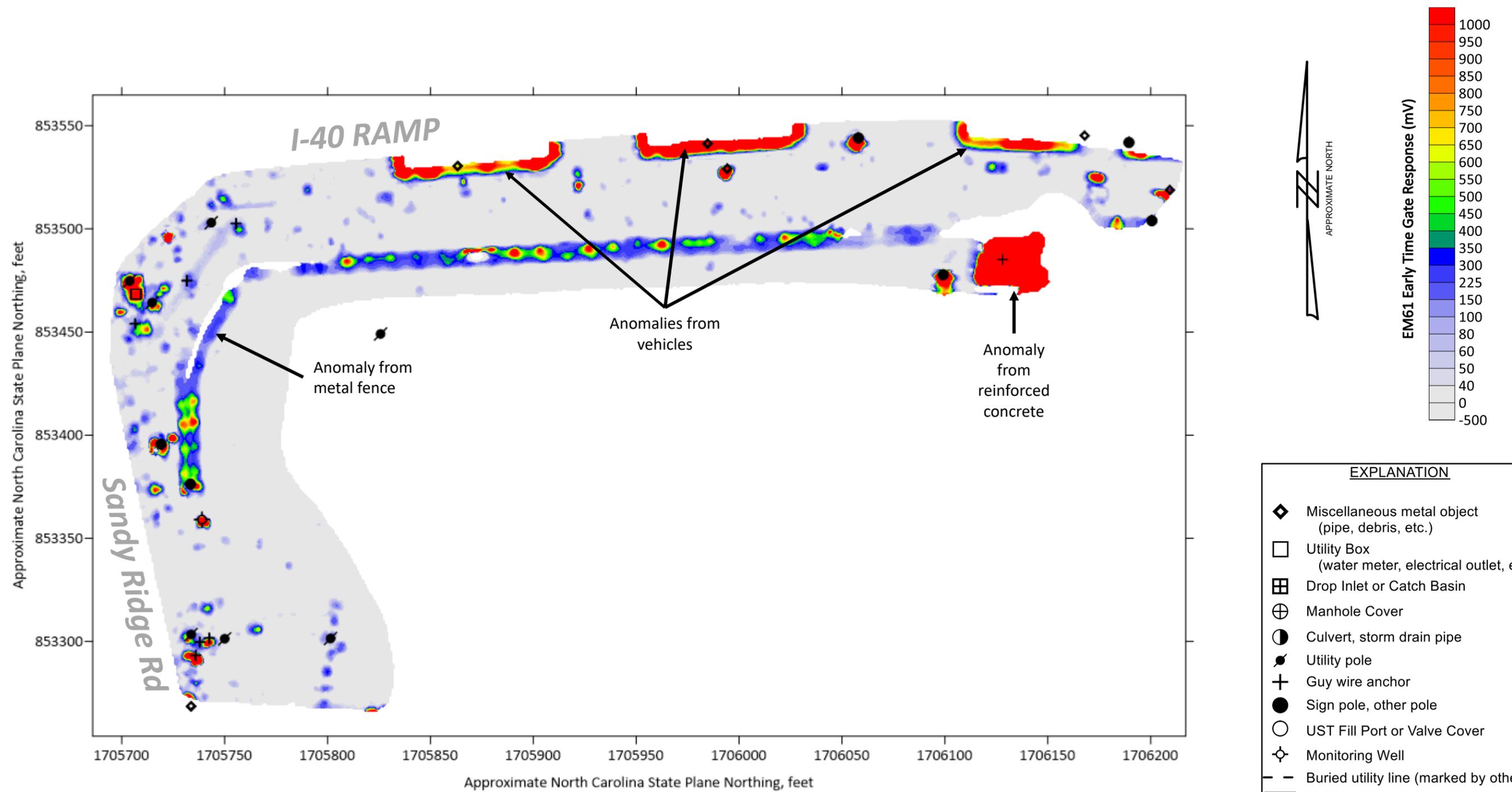


C. Photograph of drilling Boring B175-1 on west side of parcel, facing west.



D. Photograph from northeast corner of parcel, facing east, I-40 ramp to right.

PROJECT NO. IS14.314	FIGURE 2 – PARCEL 175, BESSEMER IMPROVEMENT CO. SITE PHOTOGRAPHS	 ESP Associates, Inc. 7011 Albert Pick Rd., Suite E Greensboro, NC 27409 336.334.7724 www.espassociates.com
SCALE N/A		
DATE 3/22/2022	NCDOT PROJECT U-4758 JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40 GUILFORD COUNTY, NORTH CAROLINA	
BY CRP/EDB		



EXPLANATION	
◆	Miscellaneous metal object (pipe, debris, etc.)
□	Utility Box (water meter, electrical outlet, etc.)
⊞	Drop Inlet or Catch Basin
⊕	Manhole Cover
●	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

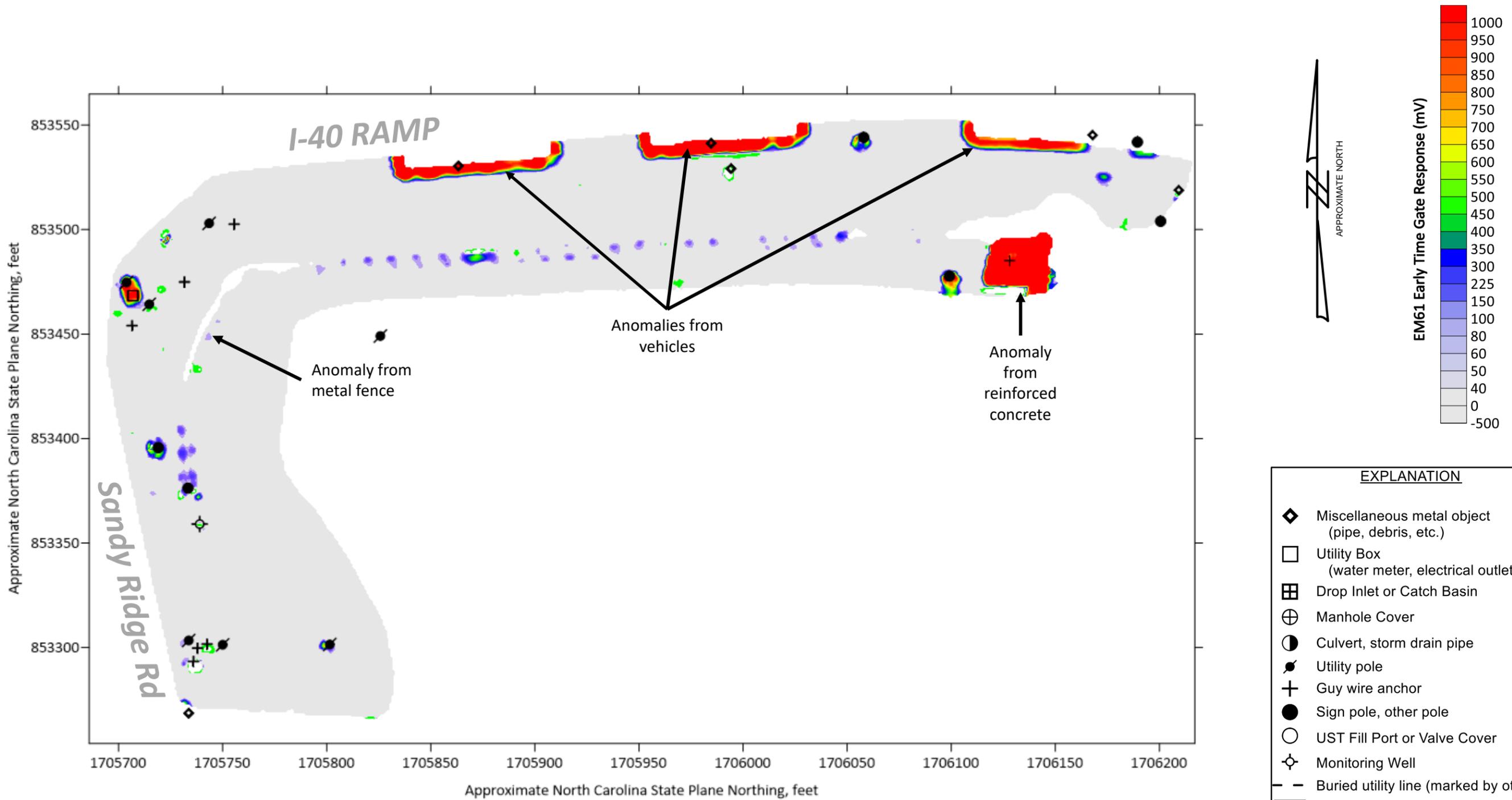
Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

PROJECT NO.	IS14.314
SCALE	AS SHOWN
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BY	CRP/EDB

FIGURE 3 – PARCEL 175, BESSEMER IMPROVEMENT CO.
EM61 EARLY TIME GATE DATA
NCDOT PROJECT U-4758
JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40
GUILFORD COUNTY, NORTH CAROLINA



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EXPLANATION	
◆	Miscellaneous metal object (pipe, debris, etc.)
□	Utility Box (water meter, electrical outlet, etc.)
⊞	Drop Inlet or Catch Basin
⊕	Manhole Cover
●	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

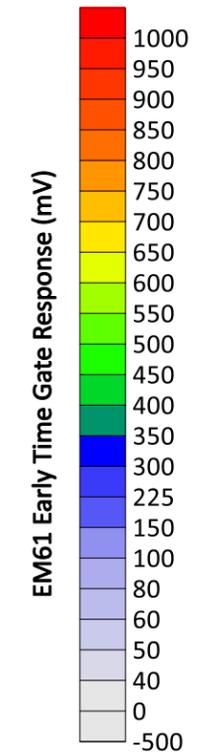
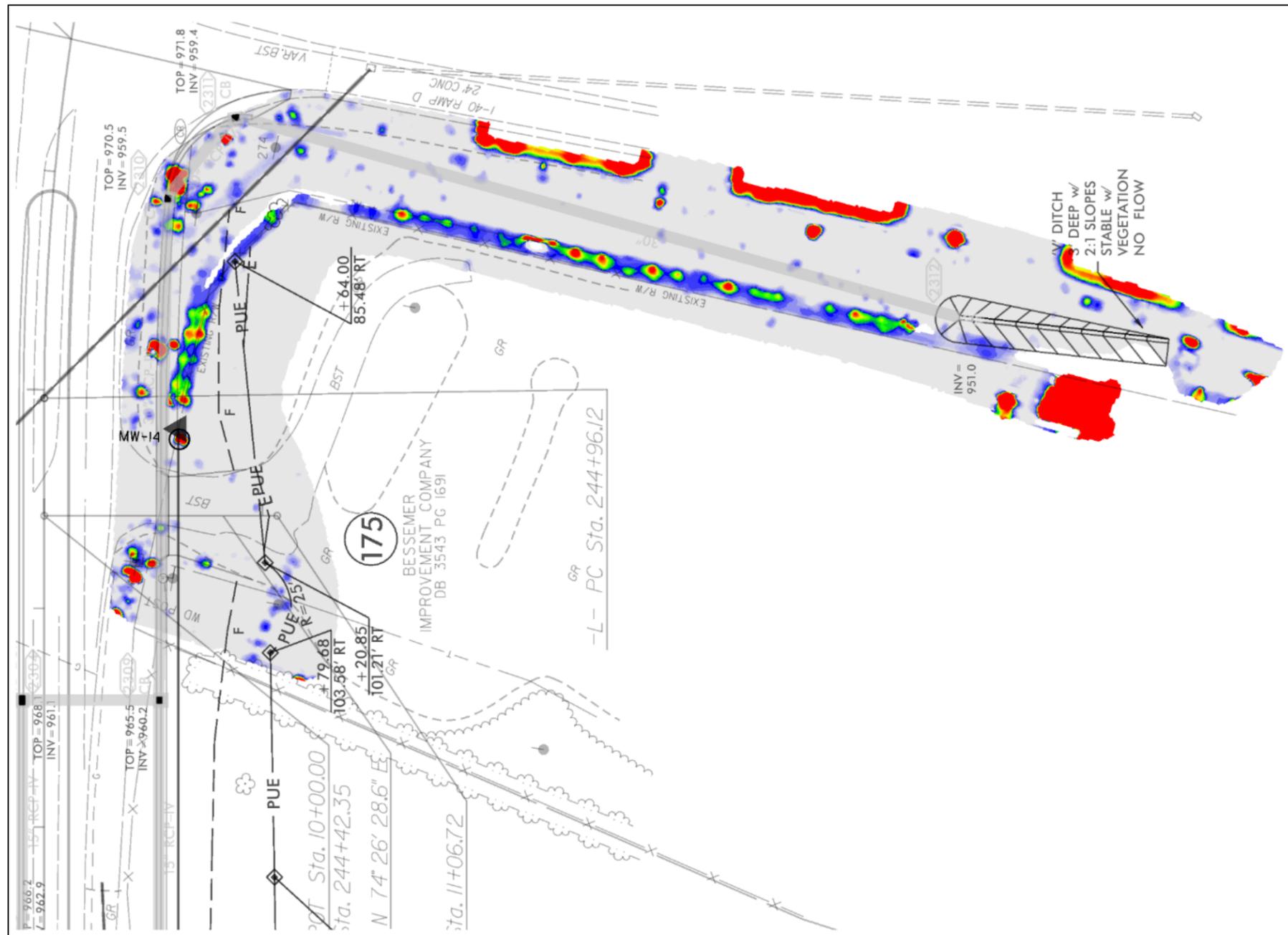
Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

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FIGURE 4 – PARCEL 175, BESSEMER IMPROVEMENT CO.
EM61 DIFFERENTIAL DATA
NCDOT PROJECT U-4758
JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40
GUILFORD COUNTY, NORTH CAROLINA



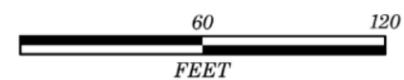
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List of Microstation References

- U4758_Geo_env.dgn
- U4758_HYD_DRN.dgn
- U4758_ncdot_fs.dgn
- U4758_rdy_dsn.dgn
- U4758_rdy_row.dgn
- U4758_rdy_ss.dgn

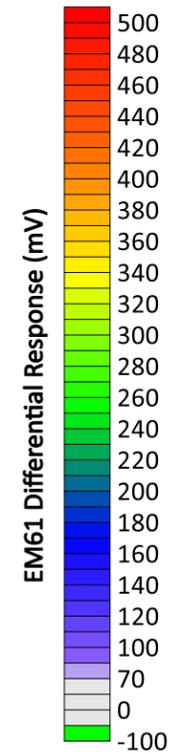
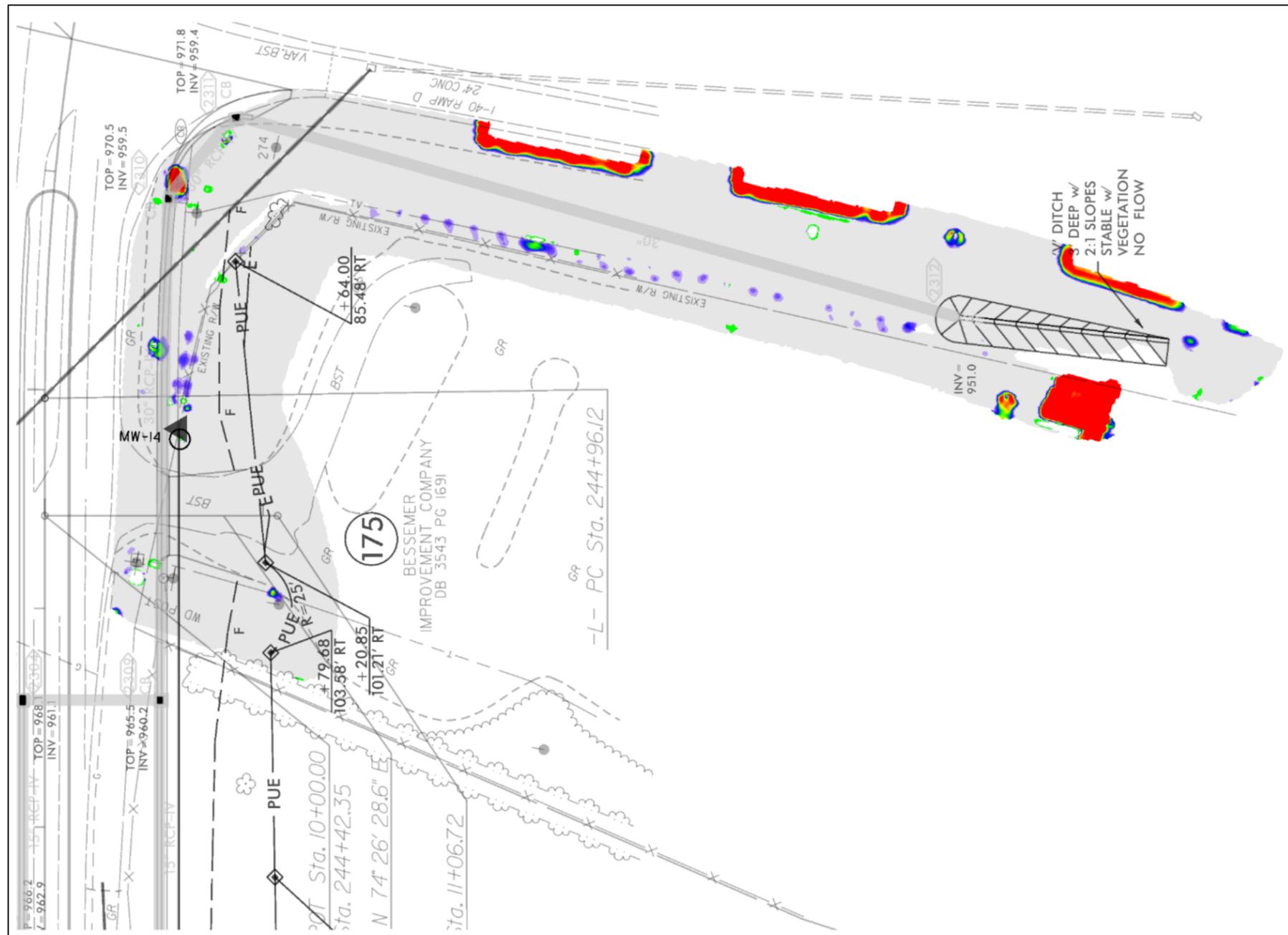
See Figure 9 for explanation of symbols and line types



PROJECT NO.	IS14.314	FIGURE 5 – PARCEL 175, BESSEMER IMPROVEMENT CO. EM61 EARLY TIME GATE DATA ON PLAN SHEET
SCALE	1" = 60'	
DATE	3/22/2022	NCDOT PROJECT U-4758 JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40 GUILFORD COUNTY, NORTH CAROLINA
BY	CRP/EDB	

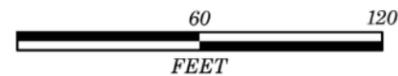


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- U4758_ncdot_fs.dgn
- U4758_rdy_dsn.dgn
- U4758_rdy_row.dgn
- U4758_rdy_ss.dgn

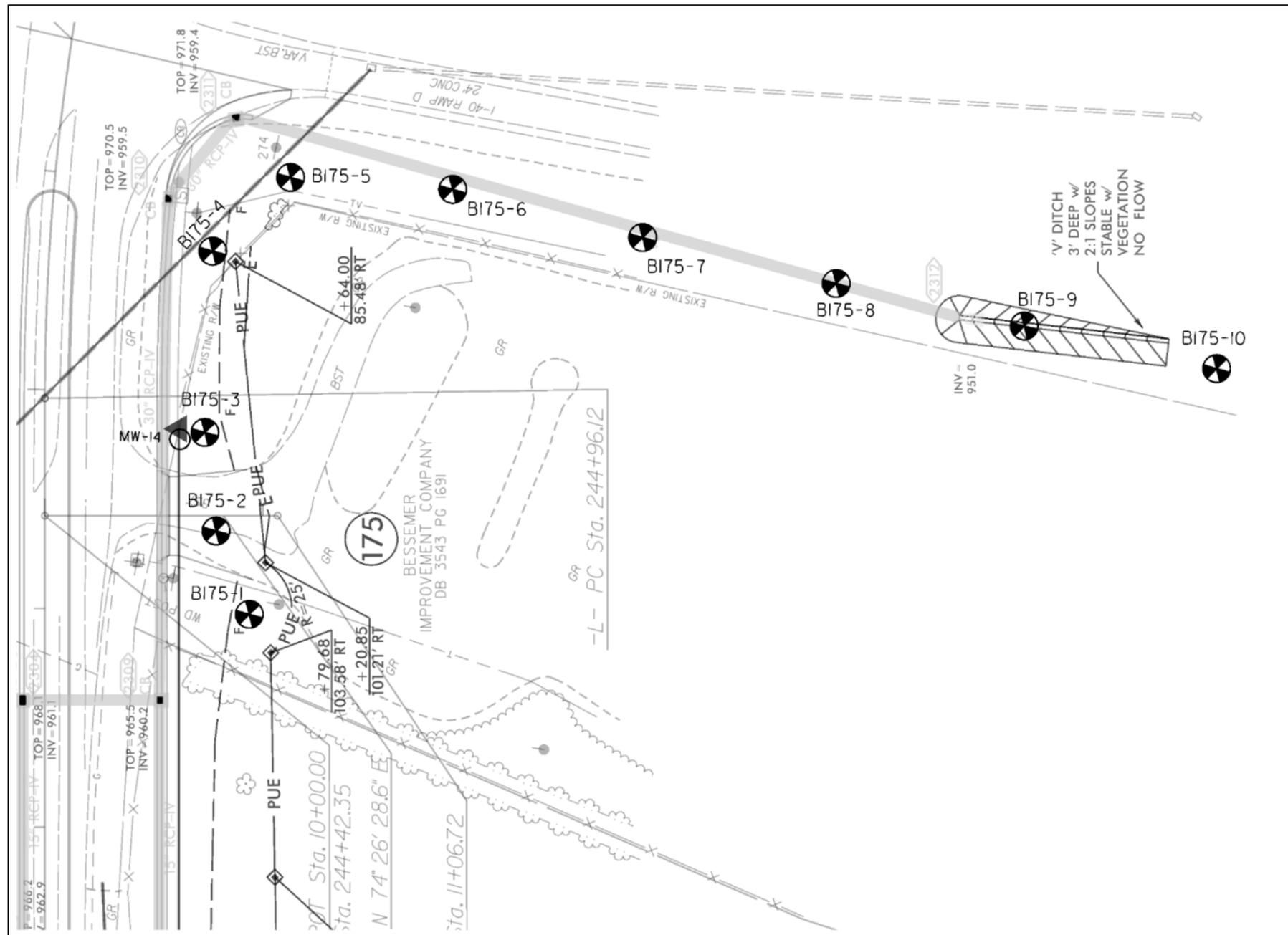


See Figure 9 for explanation of symbols and line types

PROJECT NO.	IS14.314	FIGURE 6 – PARCEL 175, BESSEMER IMPROVEMENT CO. EM61 DIFFERENTIAL DATA ON PLAN SHEET
SCALE	1" = 60'	
DATE	3/22/2022	NCDOT PROJECT U-4758 JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40 GUILFORD COUNTY, NORTH CAROLINA
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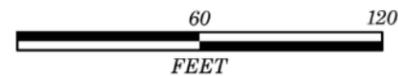
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- U4758_Geo_env.dgn
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- U4758_ncdot_fs.dgn
- U4758_rdy_dsn.dgn
- U4758_rdy_row.dgn
- U4758_rdy_ss.dgn

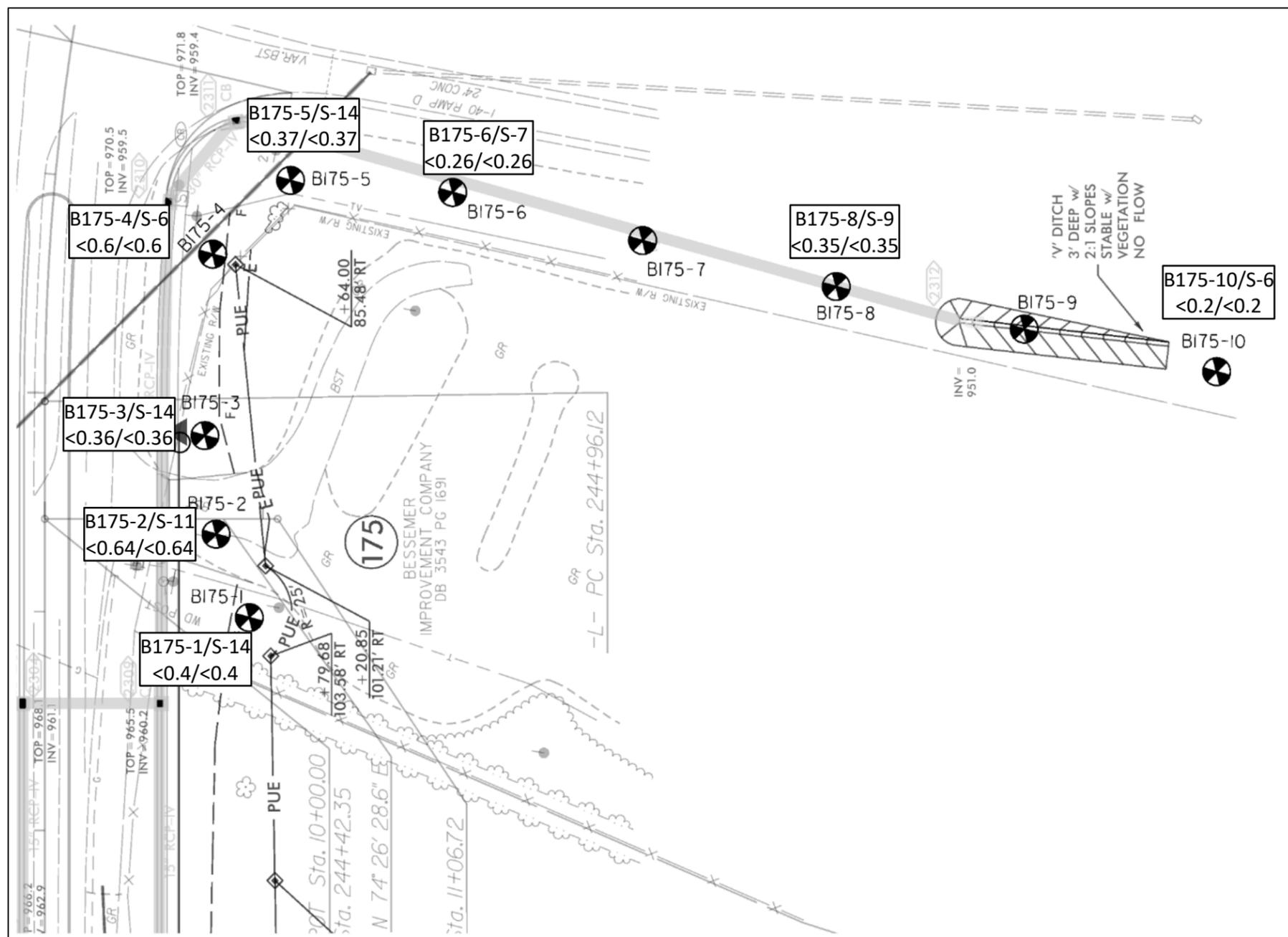
See Figure 9 for explanation of symbols and line types



PROJECT NO.	IS14.314
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DATE	3/22/2022
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FIGURE 7 – PARCEL 175, BESSEMER IMPROVEMENT CO. BORING LOCATIONS ON PLAN SHEET	
NCDOT PROJECT U-4758 JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40 GUILFORD COUNTY, NORTH CAROLINA	



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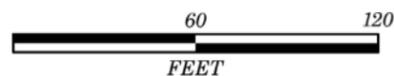


Explanation
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> B175-1/S-14 <0.4/<0.4 </div>
Maximum Analytical Results per Boring Boring No./Sample No. GRO/DRO (mg/kg, ppm)

List of Microstation References

- U4758_Geo_env.dgn
- U4758_HYD_DRN.dgn
- U4758_ncdot_fs.dgn
- U4758_rdy_dsn.dgn
- U4758_rdy_row.dgn
- U4758_rdy_ss.dgn

See Figure 9 for explanation of symbols and line types



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SCALE	1" = 60'
DATE	3/22/2022
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**FIGURE 8 – PARCEL 175, BESSEMER IMPROVEMENT CO.
SOIL ANALYTICAL RESULTS ON PLAN SHEET**

**NCDOT PROJECT U-4758
JOHNSON ST– SANDY RIDGE RD FROM SKEET CLUB RD TO I-40
GUILFORD COUNTY, NORTH CAROLINA**



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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	①②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○-○-○
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	-X-X-X-
Potential Contamination Area: Soil	-X-X-X-
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 Call 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.	IS14.314
SCALE	N/A
DATE	3/22/2022
BY	CRP/EDB

**FIGURE 9- PARCEL 175, BESSEMER IMPROVEMENT CO.
LEGEND FOR PLAN SHEET FIGURES**

**NCDOT PROJECT U-4758
JOHNSON ST- SANDY RIDGE RD FROM SKEET CLUB RD TO I-40
GUILFORD 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.**B175-1**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314
 LOCATION: Approximately 67.2' east from edge of pavement south of driveway
 TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1
 DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft
 DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft
 DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 962.0'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.6	0.3'-15.0' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.4		
3	S-3	3.0-3.5	0.6		
4	S-4	4.0-4.5	0.8		
5	S-5	5.0-5.5	0.2		Macrocore 5.0'-10.0' Core Rec 4.7'/5.0'
6	S-6	6.0-6.5	1.2		
7	S-7	7.0-7.5	1.2		
8	S-8	8.0-8.5	1.3		
9	S-9	9.0-9.5	1.2		
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 3.0'/5.0'
11	S-11	11.0-11.5	no sample		
12	S-12	12.0-12.5	1.7		
13	S-13	13.0-13.5	1.4		
14	S-14	14.0-14.5	2.4		
15					

Samples highlighted red selected for analytical



FIELD BORING LOG

BORING NO.**B175-2**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314
 LOCATION: Approximatley 45.3' northeast from edge of pavement south of driveway
 TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1
 DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft
 DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft
 DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 964.0'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	1.5	0.3'-13.0' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	1.1		
3	S-3	3.0-3.5	0.8		
4	S-4	4.0-4.5	0.5		
5	S-5	5.0-5.5	no sample		Macrocore 5.0'-10.0' Core Rec 4.0'/5.0'
6	S-6	6.0-6.5	1.1		
7	S-7	7.0-7.5	0.3		
8	S-8	8.0-8.5	0.5		
9	S-9	9.0-9.5	1.0		
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 3.8'/5.0'
11	S-11	11.0-11.5	2.2		
12	S-12	12.0-12.5	2.0		
				12.4' Grading to Yellow	
13	S-13	13.0-13.5	0.9	13.0'-15.0' Yellow to Gray to Red Micaceous, Coarse to Fine Sandy SILT, Moist	
14	S-14	14.0-14.5	2.0		
15					



FIELD BORING LOG

BORING NO.**B175-3**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314

LOCATION: Approximately 24.6' southeast of monitoring well on west side of parcel

TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft

DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft

DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 964.8'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	2.3	0.3'-7.2' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.7		
3	S-3	3.0-3.5	0.3		
4	S-4	4.0-4.5	0.8		
5	S-5	5.0-5.5	0.5		Macrocore 5.0'-10.0' Core Rec 4.5'/5.0'
6	S-6	6.0-6.5	1.3		
7	S-7	7.0-7.5	0.9	6.8' Grading to Yellow 7.2'-8.3' Yellow to Gray, Coarse to Fine Sandy SILT, Moist	
8	S-8	8.0-8.5	1.3		
9	S-9	9.0-9.5	0.8	8.3'-15.0' White to Gray Silty Coarse to Fine SAND, Moist	
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 4.0'/5.0'
11	S-11	11.0-11.5	0.7		
12	S-12	12.0-12.5	0.6		
13	S-13	13.0-13.5	1.2		
14	S-14	14.0-14.5	1.7		
15					



FIELD BORING LOG

BORING NO.**B175-4**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314

LOCATION: Approximatley 92.8' north of driveway

TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft

DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft

DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 967.4'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.5	0.3'-12.3' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.7		
3	S-3	3.0-3.5	0.4		
4	S-4	4.0-4.5	0.5		
5	S-5	5.0-5.5	no sample		Macrocore 5.0'-10.0' Core Rec 4.0'/5.0'
6	S-6	6.0-6.5	1.7	6.0' Grading to Orange	
7	S-7	7.0-7.5	0.5		
8	S-8	8.0-8.5	0.9		
9	S-9	9.0-9.5	0.7		
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 4.0'/5.0'
11	S-11	11.0-11.5	0.4		
12	S-12	12.0-12.5	0.4	12.3'-14.9' Red to Orange to Black, Micacous Coarse to Fine Sandy SILT, Moist	
13	S-13	13.0-13.5	0.3		
14	S-14	14.0-14.5	0.4	14.0' Grading to Yellow-Brown	
15				14.9'-15.0' White, Coarse Silty SAND, Moist	



FIELD BORING LOG

BORING NO.**B175-5**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314
 LOCATION: Approximately 42.8' south of on-ramp pavement
 TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1
 DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft
 DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft
 DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 966.7'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.4	0.3'-1.8' Red, Micaceous Silty CLAY, Moist	
2	S-2	2.0-2.5	0.5	1.8'-8.5' Red, Micaceous, Clayey SILT, Moist	
3	S-3	3.0-3.5	0.3	3.2' Grading to Orange	
4	S-4	4.0-4.5	0.2		
5	S-5	5.0-5.5	no sample		Macrocore 5.0'-10.0' Core Rec 4.0'/5.0'
6	S-6	6.0-6.5	0.3		
7	S-7	7.0-7.5	0.6		
8	S-8	8.0-8.5	0.9		
9	S-9	9.0-9.5	0.6	8.5'-10.0' White to Gray, Micaceous, Coarse to Fine Silty SAND, Moist	
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 4.0'/5.0'
11	S-11	11.0-11.5	1.2		
12	S-12	12.0-12.5	0.9		
13	S-13	13.0-13.5	0.9		
14	S-14	14.0-14.5	0.4		
15					



FIELD BORING LOG

BORING NO.**B175-6**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314

LOCATION: Approximately 33.9' south of onramp pavement

TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 15.0 ft

DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft

DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 960.1'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.2	0.3'-3.2' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.3	3.2'-15.0' Orange, Micaceous, Fine Sandy SILT, Moist	
3	S-3	3.0-3.5	0.4		
4	S-4	4.0-4.5	0.4		
5	S-5	5.0-5.5	no sample		Macrocore 5.0'-10.0' Core Rec 3.0'/5.0'
6	S-6	6.0-6.5	no sample		
7	S-7	7.0-7.5	0.4	7.2' Grading to White and Tan	
8	S-8	8.0-8.5	0.6		
9	S-9	9.0-9.5	0.7		
10	S-10	10.0-10.5	no sample		Macrocore 10.0'-15.0' Core Rec 4.0'/5.0'
11	S-11	11.0-11.5	0.3		
12	S-12	12.0-12.5	0.3		
13	S-13	13.0-13.5	0.5	13.1' Grading to Red and Brown and Black	
14	S-14	14.0-14.5	0.5		
15					



FIELD BORING LOG

BORING NO.**B175-7**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314
 LOCATION: Approximately 87.9' northwest of northwest corner of building
 TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1
 DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 10.0 ft
 DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft
 DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: 956.4'

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.5	0.3'-2.3' Red, Micaceous, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.3	2.3'-9.9' Red, Micaceous, Fine Sandy SILT, Moist	
3	S-3	3.0-3.5	0.7		
4	S-4	4.0-4.5	0.6		
5	S-5	5.0-5.5	0.5		Macrocore 5.0'-10.0' Core Rec 4.6'/5.0'
6	S-6	6.0-6.5	0.4		
7	S-7	7.0-7.5	0.4		
				7.6' Grading to Red, Orange, and Black	
8	S-8	8.0-8.5	0.9		
9	S-9	9.0-9.5	0.8		
10				9.9'-10.0' White to Gray Silty Coarse to Fine SAND, Moist	
11					
12					
13					
14					
15					



FIELD BORING LOG

BORING NO.**B175-8**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314

LOCATION: Approximately 45.4' north of northwest corner of building

TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 10.0 ft

DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft

DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: n/a

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.4	0.3'-8.4' Red, Clayey SILT, Moist	
2	S-2	2.0-2.5	0.3		
3	S-3	3.0-3.5	0.5		
4	S-4	4.0-4.5	0.5		
5	S-5	5.0-5.5	0.3		Macrocore 5.0'-10.0' Core Rec 4.7'/5.0'
6	S-6	6.0-6.5	1.0		
7	S-7	7.0-7.5	0.6		
8	S-8	8.0-8.5	0.3	8.4'-10.0' Brown, Micaceous, Fine Sandy SILT, Moist	
9	S-9	9.0-9.5	0.7		
10					
11					
12					
13					
14					
15					



FIELD BORING LOG

BORING NO.**B175-9**

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314

LOCATION: Approximately 78.3' northwest of northeast corner of building

TYPE OF BORING: Direct Push & Hand Auger DATE STARTED: 3/7/2022 SHEET: 1 of 1

DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022 TOTAL DEPTH: 10.0 ft

DRILLER: Scott Hunt SAMPLE METHOD: Hand Auger & Macrocore DEPTH TO GW: Dry ft

DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman COMMENT: Elev: n/a

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Hand Auger 0.0'-5.0'
1	S-1	1.0-1.5	0.5	0.3'-10.0' Red, Micaceous, Silty, CLAY with Gravel, Moist	
				1.8' Same, no gravel	
2	S-2	2.0-2.5	0.3		
3	S-3	3.0-3.5	0.5		
4	S-4	4.0-4.5	0.4		
5	S-5	5.0-5.5	0.4		Macrocore 5.0'-10.0' Core Rec 4.8'/5.0'
6	S-6	6.0-6.5	0.4		
7	S-7	7.0-7.5	0.4		
8	S-8	8.0-8.5	0.5		
9	S-9	9.0-9.5	0.9		
10					
11					
12					
13					
14					
15					



FIELD BORING LOG

BORING NO.

B175-10

PROJECT NAME: NCDOT U-4758 Phase II PROJ. NO.: IS14.314
 LOCATION: Approximately 81.8' northeast of northeast corner of building
 TYPE OF BORING: Direct Push DATE STARTED: 3/7/2022
 DRILLING FIRM: SAEDACCO DATE FINISHED: 3/7/2022
 DRILLER: Scott Hunt SAMPLE METHOD: Macrocore
 DRILL RIG: Geoprobe 54DT LOGGED BY: A. Roseman

SHEET: 1 of 1
 TOTAL DEPTH: 10.0 ft
 DEPTH TO GW: Dry ft
 COMMENT: Elev: n/a

DEPTH (ft)	SAMPLE NO.	SAMPLE DEPTH (ft)	PID READING (ppm)	FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION	REMARKS
				0.0'-0.3' Topsoil	Macrocore 0.0'-5.0'
				0.3'-10.0' Red to Brown, Micaceous, Fine Sandy CLAY, Moist	Core Rec 3.7'/5.0'
1	S-1	1.0-1.5	0.2		
2	S-2	2.0-2.5	0.4		
3	S-3	3.0-3.5	0.3		
4	S-4	4.0-4.5	no sample		
5	S-5	5.0-5.5	0.3		Macrocore 5.0'-10.0'
6	S-6	6.0-6.5	0.7		Core Rec 4.6'/5.0'
7	S-7	7.0-7.5	0.5		
8	S-8	8.0-8.5	0.3		
9	S-9	9.0-9.5	0.4		
10					
11					
12					
13					
14					
15					

APPENDIX B

RED LAB LABORATORY TESTING REPORT



Hydrocarbon Analysis Results

Client: ESP
Address: GREENSBORO, NC

Samples taken Monday, March 7, 2022
Samples extracted Monday, March 7, 2022
Samples analysed Friday, March 11, 2022

Contact: NED BILLINGTON

Operator CLAIRE NAKAMURA

Project: I514.314

U00904

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	B175-1, S-14	16.1	<0.4	<0.4	<0.4	<0.4	<0.08	<0.13	<0.016	0	0	0	PHC not detected,(BO)
s	B175-2, S-1	25.5	<0.64	<0.64	<0.64	<0.64	<0.13	<0.2	<0.025	0	0	0	PHC not detected
s	B175-3, S-14	14.4	<0.36	<0.36	<0.36	<0.36	<0.07	<0.12	<0.014	0	0	0	(FCM)
s	B175-4, S-6	23.9	<0.6	<0.6	<0.6	<0.6	<0.12	<0.19	<0.024	0	0	0	PHC not detected
s	B175-5, S-14	14.9	<0.74	<0.37	<0.37	<0.37	<0.07	<0.12	<0.015	73.8	0	26.2	Residual HC,(BO)
s	B175-6, S-7	10.4	<0.26	<0.26	<0.26	<0.26	<0.05	<0.08	<0.01	0	0	0	(FCM)
s	B175-8, S-9	14.1	<0.35	<0.35	<0.35	<0.35	<0.07	<0.11	<0.014	0	0	0	(FCM)
s	B175-10, S-6	8.1	<0.2	<0.2	<0.2	<0.2	<0.04	<0.07	<0.008	0	0	0	(FCM)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

103.8 %

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

APPENDIX D
RELEVANT NCDEQ INFORMATION

Tank 1	2000 gas	Sample 120	South end
		Sample 121	North end
Tank 2	1000 diesel	Sample 122	South end
		Sample 123	North end
Tank 3	1000 waste oil	Sample 124	West end
		Sample 125	East end

samples taken at 8 1/2' deep
 samples taken at 7' deep

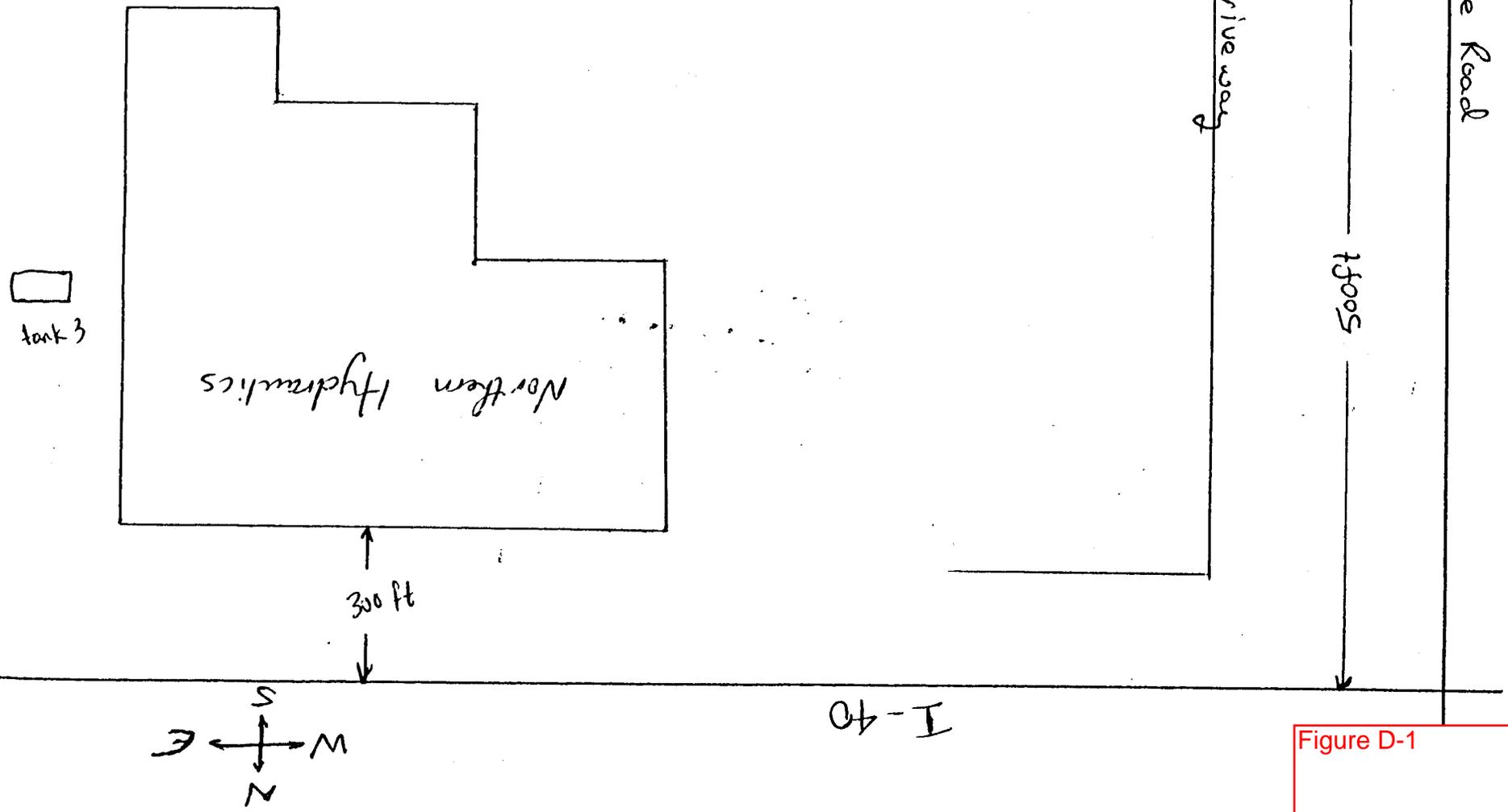
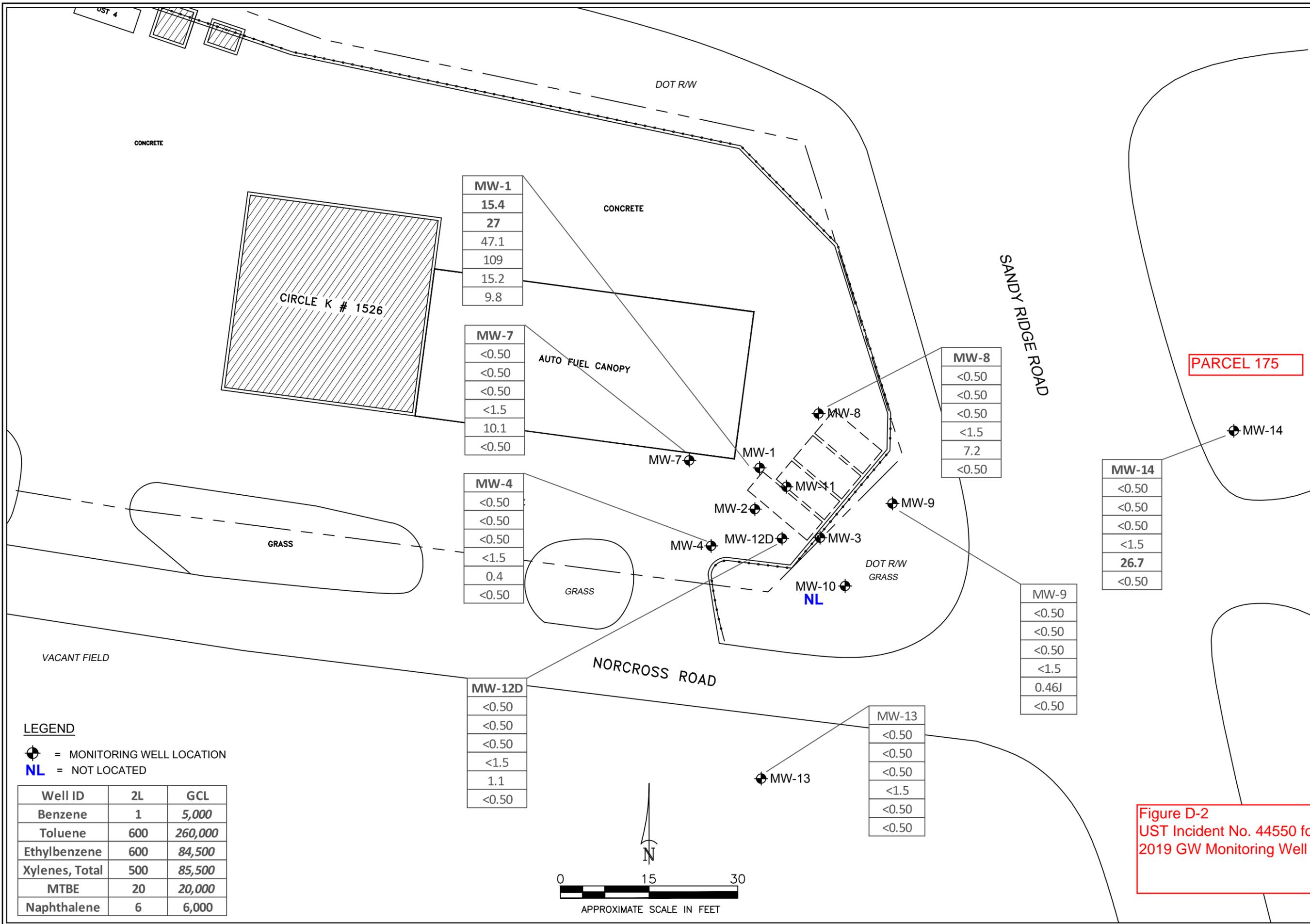


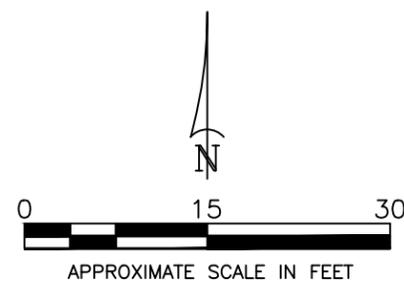
Figure D-1



LEGEND

- = MONITORING WELL LOCATION
- NL** = NOT LOCATED

Well ID	2L	GCL
Benzene	1	5,000
Toluene	600	260,000
Ethylbenzene	600	84,500
Xylenes, Total	500	85,500
MTBE	20	20,000
Naphthalene	6	6,000

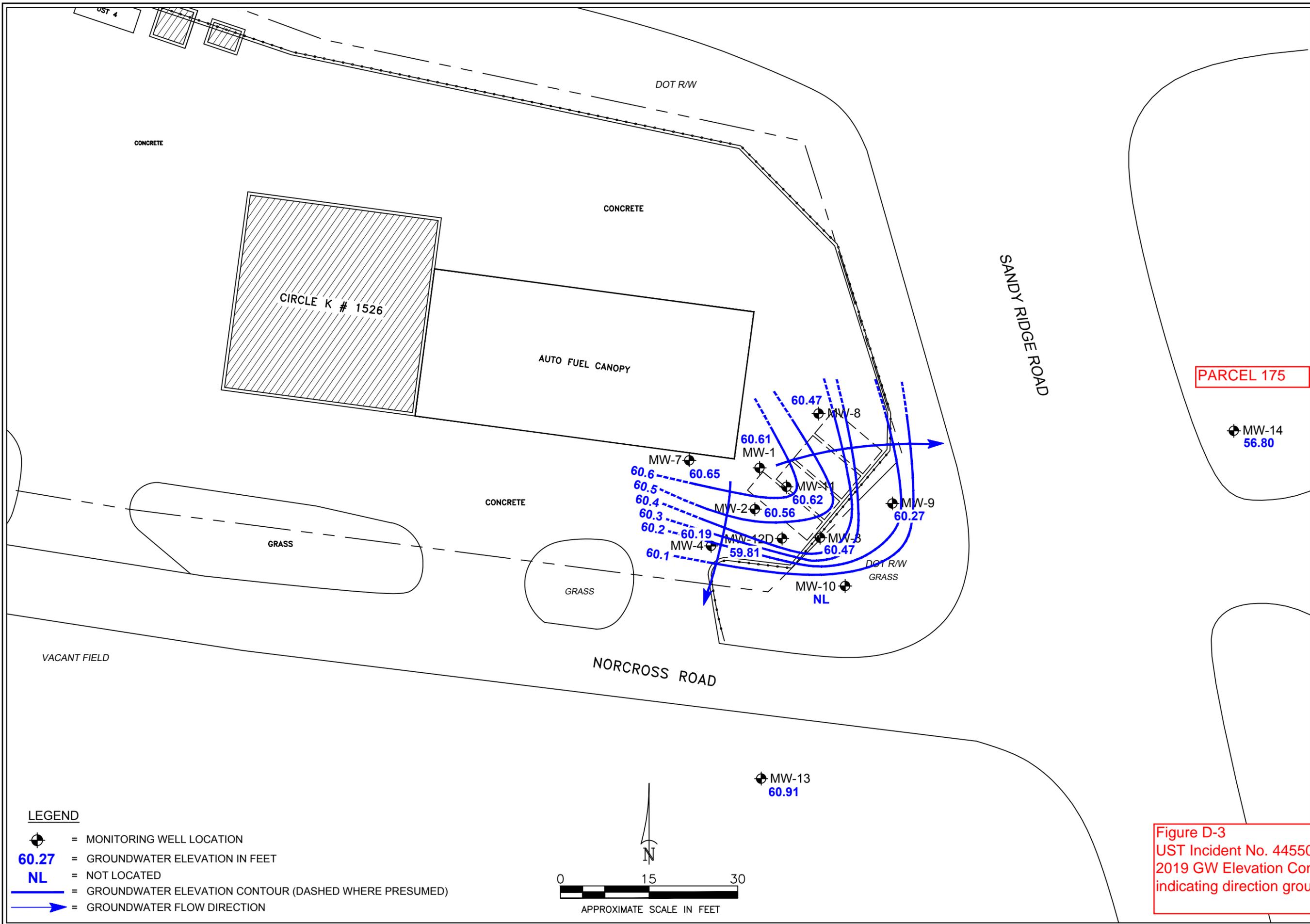


PARCEL 175

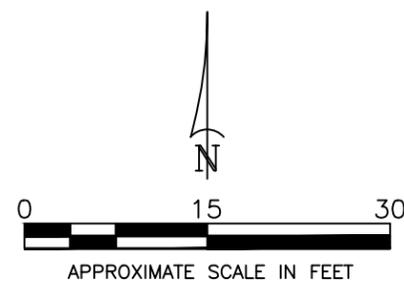
Figure D-2
UST Incident No. 44550 for Parcel 176
2019 GW Monitoring Well Results

 ATC <small>ASSOCIATES OF NORTH CAROLINA, P.C. Charlotte, North Carolina 28273 (704) 529-3200 FAX (704) 529-3272</small>	DATE 11/05/19	PROJECT NO. CIRK152604
	SCALE AS SHOWN	REV. BY SB
TITLE FIGURE 4 CONSTITUENTS OF CONCERN MAP CIRCLE K NO. 1526 8400 NORCROSS ROAD COLFAX, GUILFORD COUNTY, NORTH CAROLINA	PREP. BY LB	DCSA ID NORCROSSM
CAD FILE NORCROSSM		

NOTE



- LEGEND**
- = MONITORING WELL LOCATION
 - 60.27** = GROUNDWATER ELEVATION IN FEET
 - NL** = NOT LOCATED
 - = GROUNDWATER ELEVATION CONTOUR (DASHED WHERE PRESUMED)
 - = GROUNDWATER FLOW DIRECTION



PARCEL 175

FIGURE 3
 GROUNDWATER ELEVATION CONTOUR MAP
 CIRCLE K NO. 1526
 8400 NORCROSS ROAD
 COLFAX, GUILFORD COUNTY, NORTH CAROLINA

CAD FILE	DCSA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
NORCROSSM		LB	SB	AS SHOWN	11/05/19	CIRK152604



ASSOCIATES OF NORTH CAROLINA, P.C.
 Charlotte, North Carolina 28273 (704) 529-3200 FAX (704) 529-3272

Figure D-3
 UST Incident No. 44550 for Parcel 176
 2019 GW Elevation Contour Map
 indicating direction groundwater GW flow.

