US 221 South of US 74 Business (Charlotte Road) to North of SR 1366 (Roper Loop Road) Parcel 117 – R S Speedy Lube Inc. 831 and 841 Railroad Avenue, Rutherfordton, North Carolina State Project No. R-2233BB

WBS Element: 34400.1.S5 December 1, 2017 Terracon Project No. 71177323



Prepared for: North Carolina Department of Transportation Raleigh, North Carolina

Prepared by:

Terracon Consultants, Inc. Charlotte, North Carolina



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- Appendix C: Laboratory Analytical Reports and Chain-of-Custody Forms

December 1, 2017



North Carolina Department of Transportation Attention: Mr. Craig Haden GeoEnvironmental Engineering Unit Century Center Complex Building B 1020 Birch Ridge Road Raleigh, North Carolina 27610

Re: Preliminary Site Assessment (PSA)
US 221 South of US 74 Business (Charlotte Road) to North SR 1366 (Roper Loop Road)
Parcel 117 – R S Speedy Lube Inc.
831 and 841 Railroad Avenue, Rutherfordton, North Carolina
State Project No. R-2233BB
WBS Element: 34400.1.S5

Dear Mr. Haden:

Terracon Consultants, Inc. (Terracon) is pleased to submit a Preliminary Site Assessment (PSA) report for the above referenced site. This assessment was performed in accordance with our Proposal for Preliminary Site Assessment (Terracon Proposal No. P71177323) dated June 2, 2017. This report includes the findings of the investigation, and provides our conclusions and recommendations.

Terracon appreciates the opportunity to provide these services to the North Carolina Department of Transportation (NCDOT). If you have any questions concerning this report or need additional information, please contact us at 919-873-2211.

Sincerely,

Senior Staff Environmental Engineer

Prepared by:

S. Alex Chinery, E.I.

S. Alex Chinery - F3F142104F4941D...

Reviewed by:

— DocuSigned by: *Сину*То*риен L. Сон*ыЛТ — D334903BD0324DE...

Christopher L. Corbitt, P.G. Senior Geologist

Terracon Consultants, Inc. 2020 Starita Road, Suite E Charlotte, NC 28206 P [704] 509 1777 F [704] 509 1888 terracon.com

PRELIMINARY SITE ASSESSMENT

US 221 SOUTH OF US 74 BUSINESS (CHARLOTTE ROAD) TO NORTH SR 1366 (ROPER LOOP ROAD) RUTHERFORDTON, RUTHERFORD COUNTY, NORTH CAROLINA STATE PROJECT NO. R-2233BB WBS ELEMENT: 34400.1.S5 PARCEL 117 – R S SPEEDY LUBE INC. 831 AND 841 RAILROAD AVENUE, RUTHERFORDTON, NORTH CAROLINA

1.0 INTRODUCTION

1.1 Site Description

| Site Name | US 221 South of US 74 Business (Charlotte Road) to North SR 1366 (Roper Loop Road) in Rutherfordton | | | | |
|-----------------------------|-----------------------------------------------------------------------------------------------------|--|--|--|--|
| Site Location/Address | 831 & 841 Railroad Ave, Rutherfordton, NC 27834 (Rutherford County Tax PIN: 1631943) | | | | |
| General Site Description | The site is occupied by two automotive maintenance shops | | | | |

1.2 Site History

The site is located at 831 and 841 Railroad Avenue in Rutherfordton, Rutherford County, North Carolina (site). At the time of the PSA, the site was developed as two one-story commercial buildings currently operating as automotive maintenance shops. One facility is an express oil change facility while the second facility conducts general automotive repair. According to available regulatory information, the site does not appear in the UST registry and there are no known release incidents associated with the site.

1.3 Scope of Work

Terracon conducted the following Preliminary Site Assessment (PSA) scope of work in accordance with Terracon's Proposal No. P71177323 dated June 2, 2017. This PSA is being completed prior to planned roadway improvements along US Highway 221 in Rutherfordton, North Carolina. The scope of work included a geophysical investigation, collection of six soil samples and preparation of a report documenting the investigation activities. The PSA is not intended to delineate potential impacts. The PSA was performed within the proposed right-of-way (ROW) as indicated by North Carolina Department of Transportation (NCDOT) provided plan sheets.

Parcel 117 – R S Speedy Lube Property
Rutherfordton, North Carolina
December 1, 2017
Terracon Project No. 71177323



1.4 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These services were performed in accordance with Terracon Proposal No. P71177323 dated June 2, 2017 and were not conducted in accordance with ASTM E1903-11.

1.5 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, undetectable or not present during these services; thus, we cannot represent that the site is free of hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this PSA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use of the NCDOT. Authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the expressed written authorization of the client and Terracon.

2.0 FIELD ACTIVITIES

The following PSA activities are presented in the order that they were conducted in the field.

Exhibit 1 presents the topography of the site on a portion of the USGS topographic quadrangle map of Rutherfordton North, NC 2002. **Exhibit 2** is a site layout plan that depicts the approximate locations of the site features and soil boring locations.

Parcel 117 – R S Speedy Lube Property
Rutherfordton, North Carolina
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2.1 Geophysical Survey

On July 28 and August 2, 2017, Geophysical Survey Investigations, conducted a geophysical investigation at the site in an effort to evaluate and detect potentially unknown, metallic underground storage tanks and buried utilities beneath the proposed ROW area. The geophysical investigation included an electromagnetic (EM) induction survey using a Geonics EM61-MK2A metal detection instrument with a Hemisphere A101 GPS unit and a ground penetrating radar (GPR) survey using a Geophysical Survey Systems SIR-3000 unit equipped with a 400 MHz antenna.

The geophysical investigation did not detect evidence of unknown metallic USTs across the survey area within the depth interval of zero to six feet below land surface (bls). The metal detection and GPR scans identified underground utility lines and miscellaneous buried metal debris (reinforced concrete and metal culverts). A copy of the geophysical report is included in **Appendix A**.

2.2 Soil Sampling

Based on the findings of the geophysical investigation and Terracon's site observations, Terracon provided oversight for the advancement of six soil borings (B-118-1 through B-118-6) within Parcel 117 along the NCDOT ROW. *The samples collected on Parcel 117 were inadvertently labeled as B-118 and the samples obtained on Parcel 118 were labeled as B-117.* The borings were completed by Innovative Environmental Technologies, a North Carolina Certified Well Contractor using a track-mounted AMS 9500-VTR[®] direct-push drill rig.

Soil samples were collected in 5-foot, disposable, Macro-Core® sampler tubes to document soil lithology, color, moisture content, and sensory evidence of impacts. Each soil sample was screened for organic vapors using an 11.7 eV photoionization detector (PID). The PID data were collected in order to corroborate laboratory data and assist in selection of sample intervals for laboratory analysis. PID readings from the borings ranged from 0.9 parts per million (ppm) to 2.5 ppm.

Based on the proposed disturbance depths and discussions with the NCDOT, each of the soil borings was advanced to a depth of approximately 15 feet bls. Six soil samples, one from each boring, were collected from depths ranging between 5 to 15 feet bls and were placed in laboratory provided sample containers and sent to RED Lab, LLC (RED) for UVF analysis of gasoline range organics (GRO) and diesel range organics (DRO). Soil samples were collected in the depth interval that was most likely to be impacted based on PID readings and field observations.

Soils generally consisted of orange brown to brownish gray sandy clay. Groundwater was not encountered in the on-site borings. The soil boring logs are included in **Appendix B**. Sample

Parcel 117 – R S Speedy Lube Property
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locations were measured relative to site features and the locations depicted on **Exhibit 2** are approximate.

The drilling equipment used at the site was decontaminated prior to use and between the advancement of each boring. Non-dedicated sampling equipment was decontaminated using a Liquinox®/water wash followed by a distilled water rinse. Each of the boreholes was backfilled with hydrated bentonite pellets and investigation derived waste (IDW).

3.0 DATA EVALUATION

3.1 Soil Analytical Results

Laboratory analyses reported the following constituent detections in soil borings B-118-1, B-118-2, B-118-4, B-118-5 and B-118-6.

Boring B-118-1:

- n GRO (1.4 milligrams per kilogram [mg/kg])
- n DRO (0.92 mg/kg)
- n total aromatics (0.47 mg/kg)

Boring B-118-2:

- n DRO (13.3 mg/kg)
- n total aromatics (6.7 mg/kg)
- n PAHs (0.71 mg/kg)

Boring B-118-4:

- n DRO (1.0 mg/kg)
- n total aromatics (0.77 mg/kg)

Boring B-118-5:

- n DRO (2.7 mg/kg)
- n total aromatics (2.3 mg/kg)

Boring B-118-6:

- n DRO (0.78 mg/kg)
- n total aromatics (0.57 mg/kg)

The identified constituents were detected at concentrations below their respective NCDEQ regulatory action levels (50 mg/kg for GRO and 100 mg/kg for DRO). **Table 1** summarizes the results of the UVF analyses of the soil samples.

Parcel 117 – R S Speedy Lube Property Rutherfordton, North Carolina December 1, 2017 Terracon Project No. 71177323

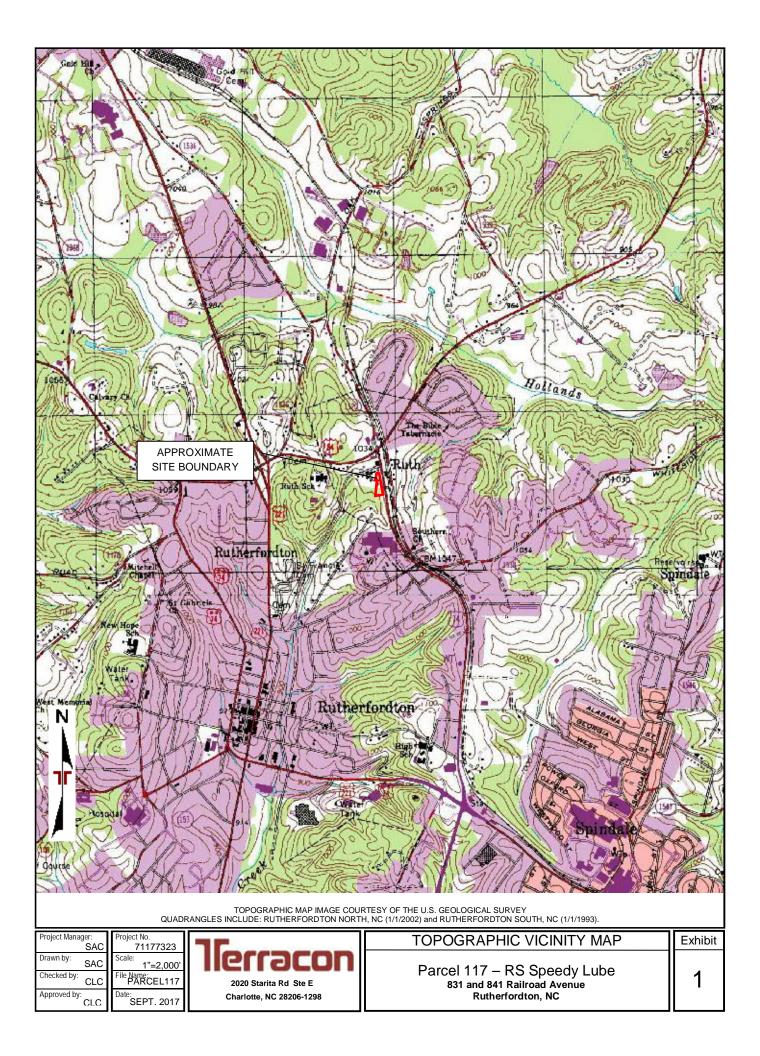


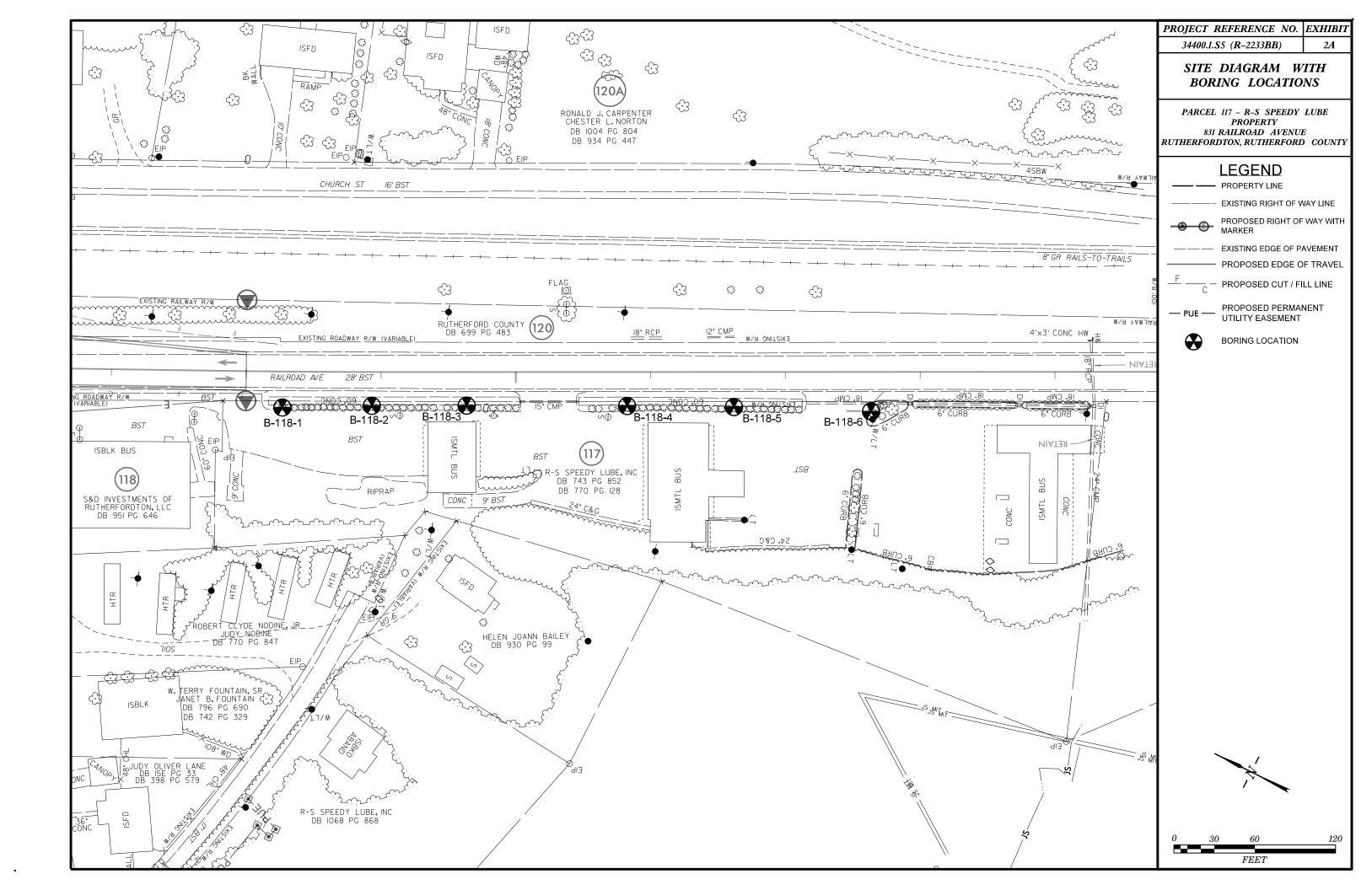
4.0 CONCLUSIONS AND RECOMMENDATIONS

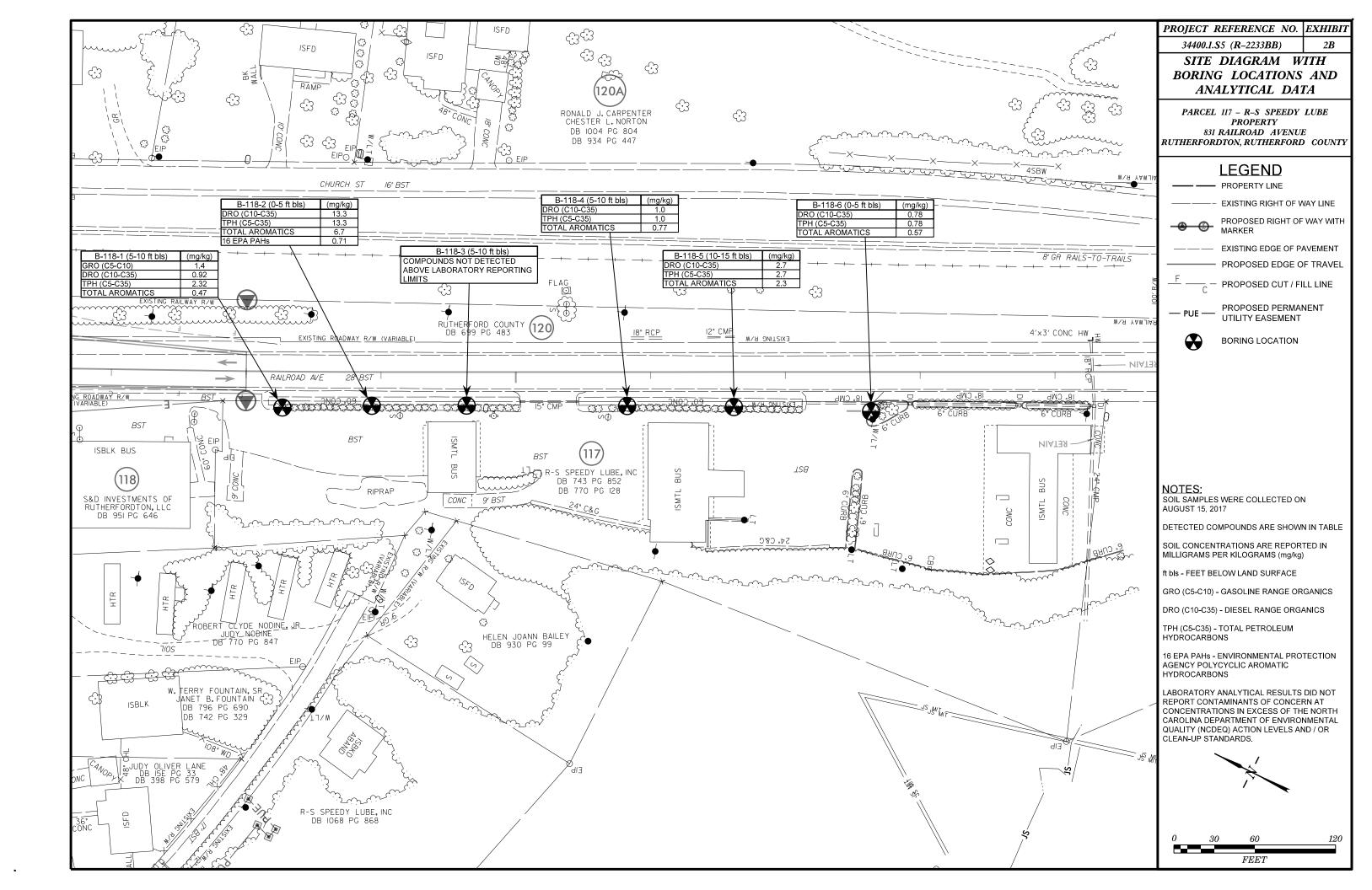
The findings of this investigation are discussed below.

- n The geophysical investigation did not reveal evidence of unknown metallic USTs within the survey area at a depth interval of zero to six feet bls. Underground utility lines, steel reinforced concrete, and metal culverts were detected in the survey area.
- n Laboratory analyses did not identify petroleum constituents above regulatory action levels in on-site soil borings B-118-1 through B-118-6; however, petroleum compounds were detected in five of the six borings above their respective laboratory reporting limits.
- n Based on the analytical results, Terracon does not recommend additional assessment of the ROW at Parcel 117 at this time. The detection of petroleum constituents (below regulatory standards) in most of the borings is an indication that future roadway construction activities at the site could encounter petroleum impacted soils within other areas of the ROW.

FIGURES EXHIBIT 1 - TOPOGRAPHIC MAP EXHIBIT 2A – SITE DIAGRAM WITH SOIL BORING LOCATIONS EXHIBIT 2B – SITE DIAGRAM WITH SOIL BORING LOCATIONS AND ANALYTICAL DATA







TABLES TABLE 1 - FIELD SCREENING RESULTS SUMMARY TABLE 2 – SOIL SAMPLING ANALYTICAL RESULTS SUMMARY (UVF)

Table 1 Summary of Field Screening Results Preliminary Site Assessment Parcel 117 - RS Speedy Lube Rutherfordton, Rutherford County, North Carolina Terracon Project No. 71177323

| Sample ID | eened Intei | PID Value |
|--------------|-------------|--------------|
| B-118-1 | 0-5 5-10 | 1.3 1.7* |
| | 10-15 | 1.6 |
| | 0-5 | 2.5* |
| B-118-2 | 5-10 | 1.6 |
| | 10-15 | 1.4 |
| | 0-5 | 1.6 |
| B-118-3 | 5-10 | 1.6* |
| | 10-15 | 1.6 |
| | 0-5 | 1.4 |
| B-118-4 | 5-10 | 1.7* |
| | 10-15 | 1.6 |
| | 0-5 | 1.6 |
| B-118-5 | 5-10 | 1.5 |
| | 10-15 | 1.6* |
| | 0-5 | 1.7* |
| B-118-6 | 5-10 | 0.9 |
| | 10-15 | 1.5 |

Notes:

Soil screening was conducted on August 15, 2017.

*indicates sampled interval.

Concentrations are reported in parts per million (ppm).

Samples collected on Parcel 117 were incorrectly identified as B-118.

Table 2 Summary of Soil Analytical Results Preliminary Site Assessment Parcel 117 - RS Speedy Lube Rutherfordton, Rutherford County, North Carolina Terracon Project No. 71177323

| Sample ID: | B-118-1* | B-118-2* | B-118-3* | B-118-4* | B-118-5* | B-118-6* | TPH |
|------------------------|----------|----------|----------|----------|----------|----------|-----------------|
| Sample Depth (ft bls): | 5-10 | 0-5 | 5-10 | 5-10 | 10-15 | 0-5 | Action Level |
| UVF Analysis | | | | | | | |
| BTEX (C6-C9) | <0.55 | <0.55 | <0.5 | <0.52 | <0.53 | <0.56 | NE |
| GRO (C5-C10) | 1.4 | <0.55 | <0.5 | <0.52 | <0.53 | <0.56 | 50 |
| DRO (C10-C35) | 0.92 | 13.3 | <0.5 | 1 | 2.7 | 0.78 | 100 |
| TPH (C5-C35) | 2.32 | 13.3 | <0.5 | 1 | 2.7 | 0.78 | NE |
| Total Aromatics | 0.47 | 6.7 | <0.1 | 0.77 | 2.3 | 0.57 | NE |
| 16 EPA PAHs | <0.17 | 0.71 | <0.016 | <0.17 | <0.17 | <0.18 | NE |
| BaP | <0.022 | <0.022 | <0.02 | <0.021 | <0.021 | <0.022 | NE |

Notes:

Soil samples were collected on August 15, 2017.

Detected compounds are shown in the table.

Concentrations are reported in milligrams per kilogram (mg/kg).

ft bls - feet below land surface.

* samples collected on Parcel 117 were incorrectly identified as B-118.

Bold: Constituent concentration reported above the method detection limit.

APPENDIX A GEOPHYSICAL SURVEY REPORT **Terracon Consultants, Inc.**

GEOPHYSICAL INVESTIGATION TO LOCATE METALLIC USTS

R S Speedy Lube Property (Parcel 117) 831 & 841 Railroad Avenue Rutherford County, North Carolina



November 27, 2017 Geophysical Survey Investigations, PLLC Project No. 2017-22



Office Tel: (336) 286-9718 denilm@bellsouth.net

Terracon Consultants, Inc. GEOPHYSICAL INVESTIGATION TO LOCATE METALLIC USTS R S Speedy Lube Property (Parcel 117) 831 & 841 Railroad Avenue Rutherford County, North Carolina

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| 4.0 | SUMMARY & CONCLUSIONS | 3 |
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| Figure 3 | EM61-MK2A Metal Detection – Differential Results |
| Figure 4 | NCDOT Map – EM61 Early Time Gate Results |
| Figure 5 | NCDOT Map – EM61 Differential Results |

Report prepared for:

Christopher L. Corbitt, PG Terracon Consultants, Inc. 2020 Starita Road, Suite E Charlotte, North Carolina 28206

Prepared by:

Mark J. Denil, P.G. Geophysical Survey Investigations, PLLC

1.0 INTRODUCTION

Geophysical Survey Investigations, PLLC (GSI) conducted an electromagnetic (EM) metal detection survey, ground penetrating radar (GPR) scanning and utility line clearance search for Terracon Consultants, Inc. on July 28 and August 2, 2017 across the eastern half of the R S Speedy Lube property (Parcel 117) located at 831 and 841 Railroad Avenue in Rutherford County, North Carolina. The geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment for State Project R-2233BB (WBS Element 34400.1.S1) US 221 south of US 74 Business (Charlotte Rd) to north of SR 1366.

The geophysical investigation was conducted to determine if buried, metallic, underground, storage tanks (USTs) are present beneath the proposed Right-of-Way (ROW) and PUE areas of the site. The perimeter of the geophysical survey area (approximate ROW & PUE areas) is shown as a red polygon in the aerial photograph presented in **Figure 1**. Presently, two auto repair facilities operate on the property. Most of the geophysical survey area consists of flay-lying, asphalt pavement.

Terracon representative Mr. Christopher L. Corbitt, PG provided guidance and site maps to Geophysical Survey Investigations, PLLC personnel prior to conducting the geophysical field work. The geophysical survey area at Parcel 117 has a maximum length and width of approximately 560 feet and 80 feet, respectively. Please note that the ROW and PUE areas at this site were not marked in the field or the survey markers were not visible at the time the geophysical investigation was conducted.

2.0 FIELD METHODOLOGY

The EM investigation was performed across the geophysical survey area (proposed ROW and PUE areas) using a Geonics EM61-MK2A metal detection instrument with a Hemisphere A101 GPS unit. EM61 metal detection data and GPS coordinates were digitally collected in latitude and longitude geodetic format (NAD83) using a Juniper data recorder at approximately 1.0 foot intervals along survey lines spaced approximately five feet apart. The Trackmaker NAV61MK2 software program

was used with the data recorder to view the relative positions of the survey lines in real time during data acquisition.

According to the instrument specifications, the EM61-MK2A can detect a metal drum down to a maximum depth of approximately 8 to 10 feet. Objects less than one foot in size can be detected to a maximum depth of 4 or 5 feet. The EM61 and GPS data were downloaded to a computer and processed in the field using the Trackmaker61 and Surfer for Windows software programs. GPS coordinates were converted during data processing to Universal Transverse Mercator (UTM) coordinates (in feet) which are used as location control in this report.

GPR scans were performed along northerly-southerly and easterly-westerly directions spaced primarily 3 to 5 feet apart across selected EM61differential anomalies and areas containing steel reinforced concrete using the Geophysical Survey Systems SIR-3000 unit equipped with a 400 MHz antenna. GPR data were viewed in real time in a continuous mode using a vertical scan of 512 samples, at a sampling rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were viewed to a maximum investigating depth of approximately 6.0 feet based on an estimated two-way travel time of 8.0 nanoseconds per foot.

Following the UST investigation, areas around the proposed Terracon soil borings were scanned with the GPR unit and a DitchWitch 910 utility locator for buried utility line clearance and no further discussion regarding the utility clearance work will be made in this report. Photographs of the geophysical equipment used for the investigation and of the site are presented in Figure 1.

3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 early time gate results and the EM61 differential results are presented in **Figures 2 and 3**, respectively. The early time gate results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The early time gate response can be used to delineate metallic conduits or utility lines, small, isolated, metal objects and areas containing insignificant metal debris. The differential results are obtained from the difference between the early

time gate channel and late time gate channel of the EM61 instrument. The differential results focus on the larger metal objects such as drums and UST-size objects and ignore the smaller, insignificant, metal objects or debris.

The linear, EM61 early time gate anomalies intersecting UTM coordinates 1358039-E 12846968-N, 1358075-E 12846747-N and 1358092-E 12846661-N are probably in response to metal culverts and a drain line. The early time gate anomalies centered near coordinates1358011-E 12847069-N and 1358034-E 12846916-N are probably in response to metal sign poles. The EM61 anomalies centered near UTM coordinates 1358013-E 12846993-N, 1358026-E 12846995-N, 1358012-E 12846893-N, 1358041-E 12846788-N, and 1358041-E 12846740-N are in response to vehicles that were present during data acquisition.

GPR scanning suggest the EM61 anomalies centered near UTM coordinates 1357996-E 12847044-N, 1358002-E 12847010-N, 1358005-E 12846887-N, and 1358035-E 12846832-N are in response to the building, steel reinforced concrete or miscellaneous metal equipment. The remaining portions of the geophysical survey area did not record any additional EM61 differential anomalies suggesting the accessible portions of the survey area do not contain metallic USTs within the depth interval of 0 to 6 feet. Please refer to Figures 2 and 3 for additional (detailed) information regarding the geophysical findings at this site. The EM61 results are also shown on NCDOT base maps in **Figures 4** and **5**.

4.0 SUMMARY & CONCLUSIONS

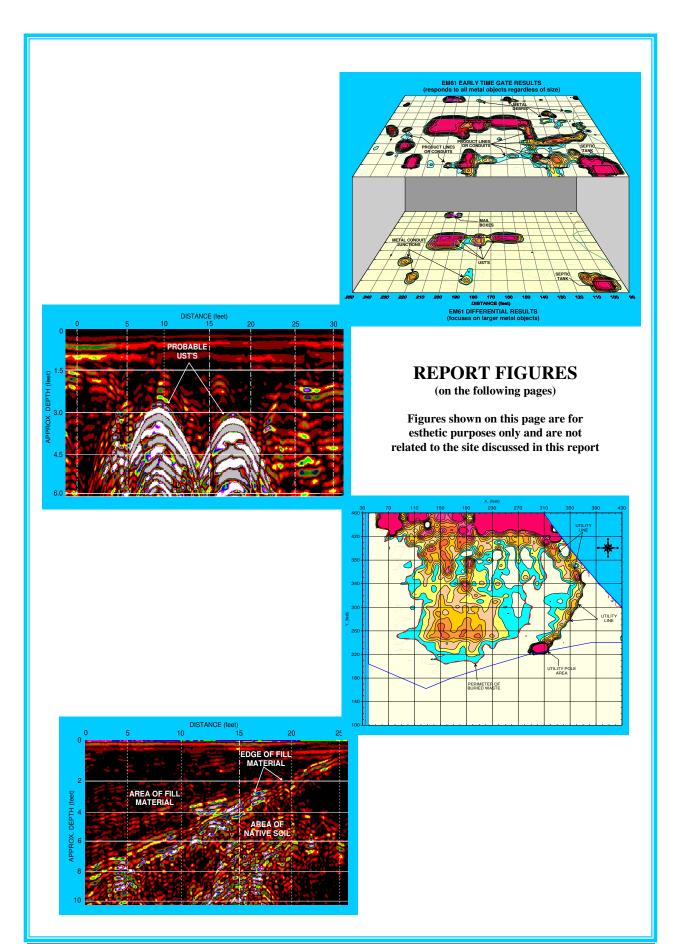
Our evaluation of the EM61 and GPR data collected across the accessible portions of the geophysical survey area at the R S Speedy Lube property (Parcel 117) located at 831 and 841 Railroad Avenue in Rutherford County, North Carolina provides the following summary and conclusions:

• The combination of EM61 and GPR surveys provided reliable results for the detection of metallic USTs across the survey area within the depth interval of 0 to 6 feet.

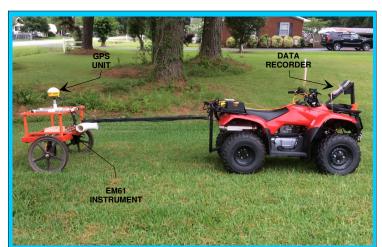
- The linear, EM61 early time gate anomalies intersecting UTM coordinates 1358039-E 12846968-N, 1358075-E 12846747-N and 1358092-E 12846661-N are probably in response to metal culverts and a drain line.
- GPR scanning suggest the EM61 anomalies centered near UTM coordinates 1357996-E 12847044-N, 1358002-E 12847010-N, 1358005-E 12846887-N and 1358035-E 12846832-N are in response to the building, steel reinforced concrete or miscellaneous metal equipment.
- The EM61 and GPR investigation suggests the accessible portions of the geophysical survey area (proposed ROW/PUE area) do not contain metallic USTs.

5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Terracon Consultants, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the geophysical surveys are non-unique and may not represent actual subsurface conditions. Some of the EM61 and GPR anomalies interpreted as possible/probable USTs, utility lines, conduits, steel reinforced concrete, or miscellaneous, metal debris may be attributed to other surface or subsurface features and/or interference from cultural features.



Geophysical Investigation Report – R S Speedy Lube Property (Parcel 117) Geophysical Survey Investigations, PLLC



EM61 METAL DETECTOR

The photograph shows the Geonics EM61-MK2A metal detector, a Hemisphere A101 GPS unit, a Juniper data recorder, and a Honda Recon ATV which were used to conduct the metal detection survey across the R S Speedy Lube property.

GROUND PENETRATING RADAR UNIT

The photograph shows the Geophysical Survey Systems SIR-3000 ground penetrating radar (GPR) unit equiped with a 400 MHz antenna that were used to conduct the GPR scanning across selected portions of the site.



DITCHWITCH UTILITY LOCATOR

The photograph shows the DitchWitch 910 utility locator which was used to detect buried lines across the proposed boring locations.



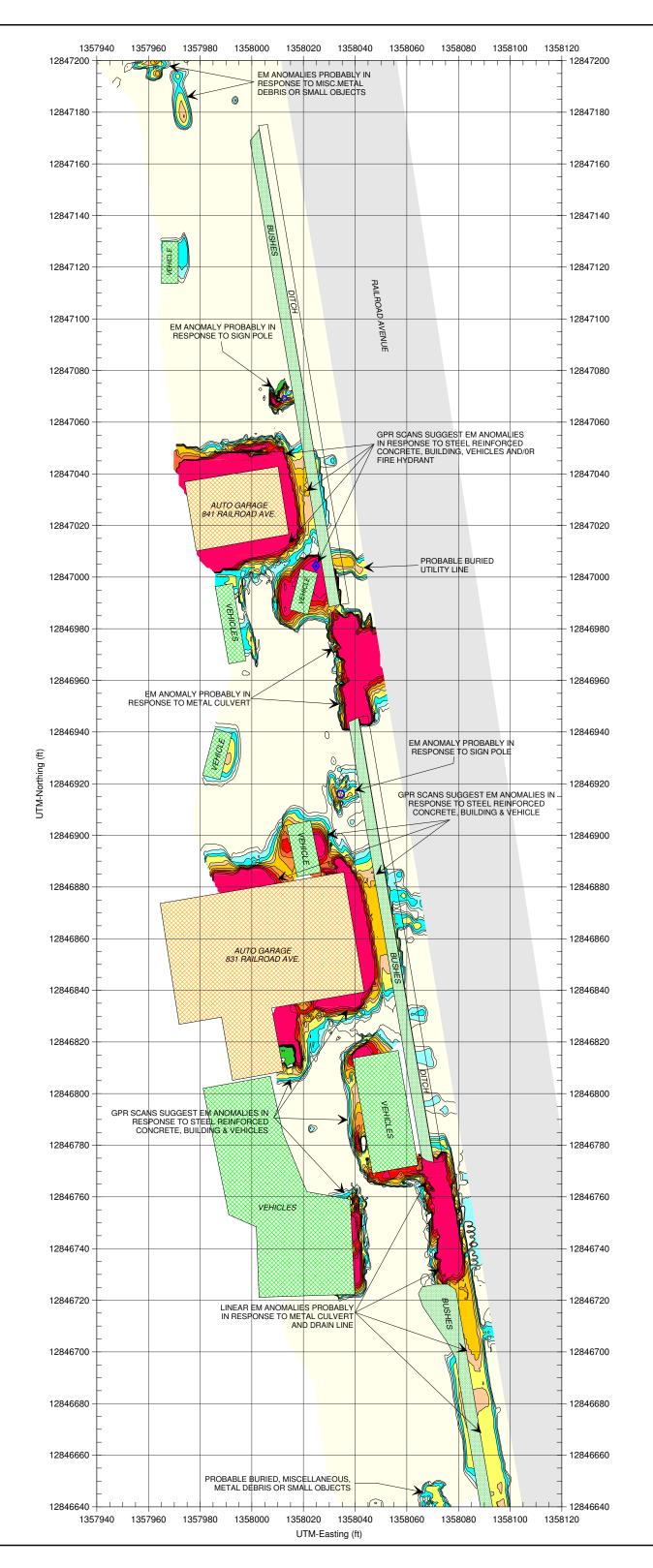
GEOPHYSICAL SURVEY AREA

The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at the R S Speedy Lube property (Parcel 117). The geophysical investigation was conducted on July 28 and August 2, 2017.

GE PHYSICAL SURVEY INVESTIGATIONS (336)286-9718 www.geo-survey.com Terracon Consultants, Inc. R S Speedy Lube Property (Parcel 117) 831 & 841 Railroad Avenue Rutherford County, North Carolina

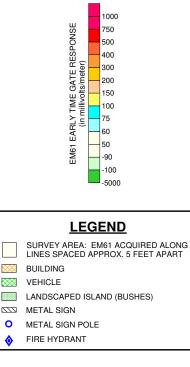
GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS

11/27/17





The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at Parcel 117.



The contour plot shows the early time gate (most sensitive) response of the Geonics EM61-MK2A metal detection instrument in millivolts (mV). The early time gate response shows buried, metallic objects, lines and conduits regardless of size. GPR scans were conducted across selected EM61 anomalies and steel reinforced concrete using

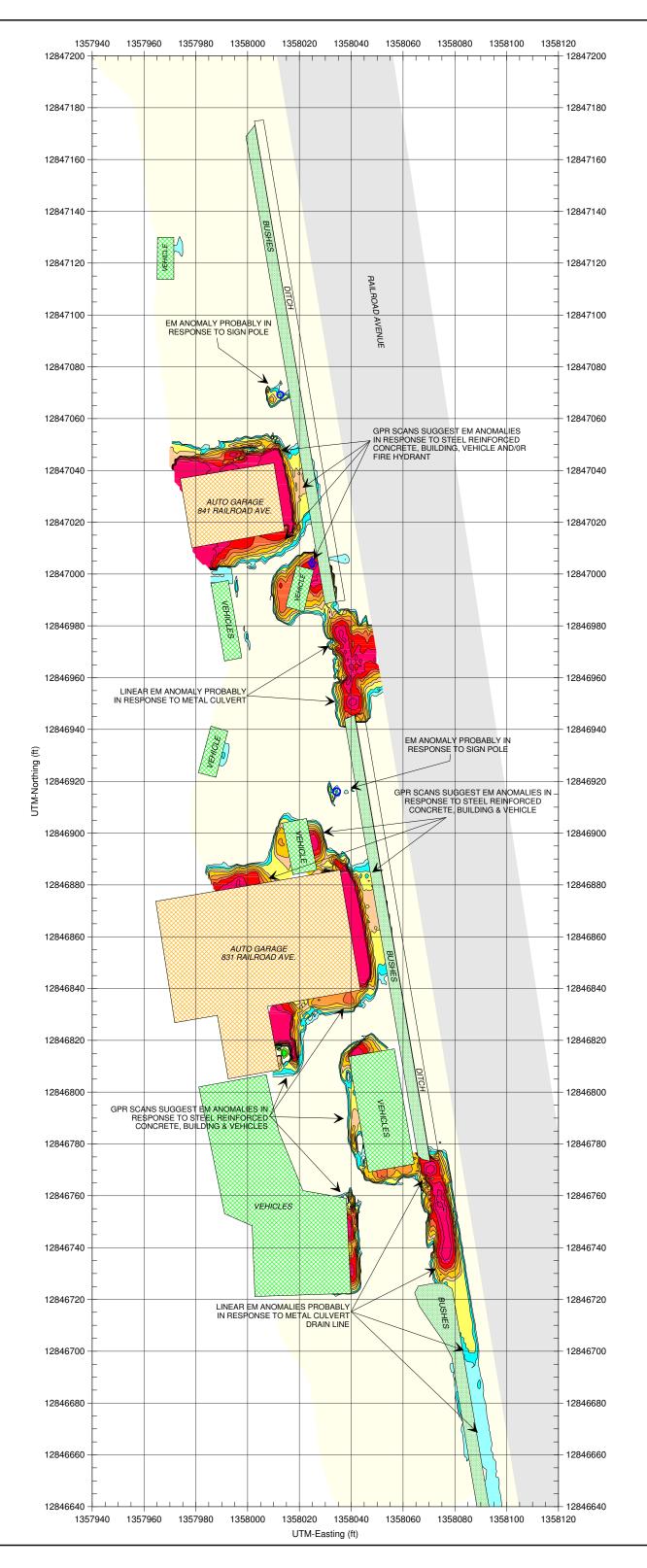
across selected EMb1 anomalies and steel reinforced concrete using a Geophysical Survey Systems SIR 3000 instrument with a 400 MHz antenna. The geophysical investigation was conducted on July 28 and August 2, 2017.

> EM61-MK2A METAL DETECTION (EARLY TIME GATE RESULTS)

TERRACON, INC.

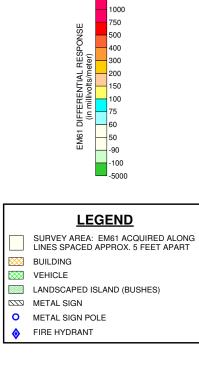
R S Speedy Lube Property (Parcel 117) 831 & 841 Railroad Avenue Rutherford County, North Carolina







The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at Parcel 117.



Note: The contour plot shows the differential response between the early time gate and the late time gate channels of the Geonics EM61-MK2A metal detection instrument in millivolts (mV). The differential response focuses on larger, buried, metallic objects such as drums and USTs and ignores smaller miscellaneous, metal debris. Ground penetrating radar

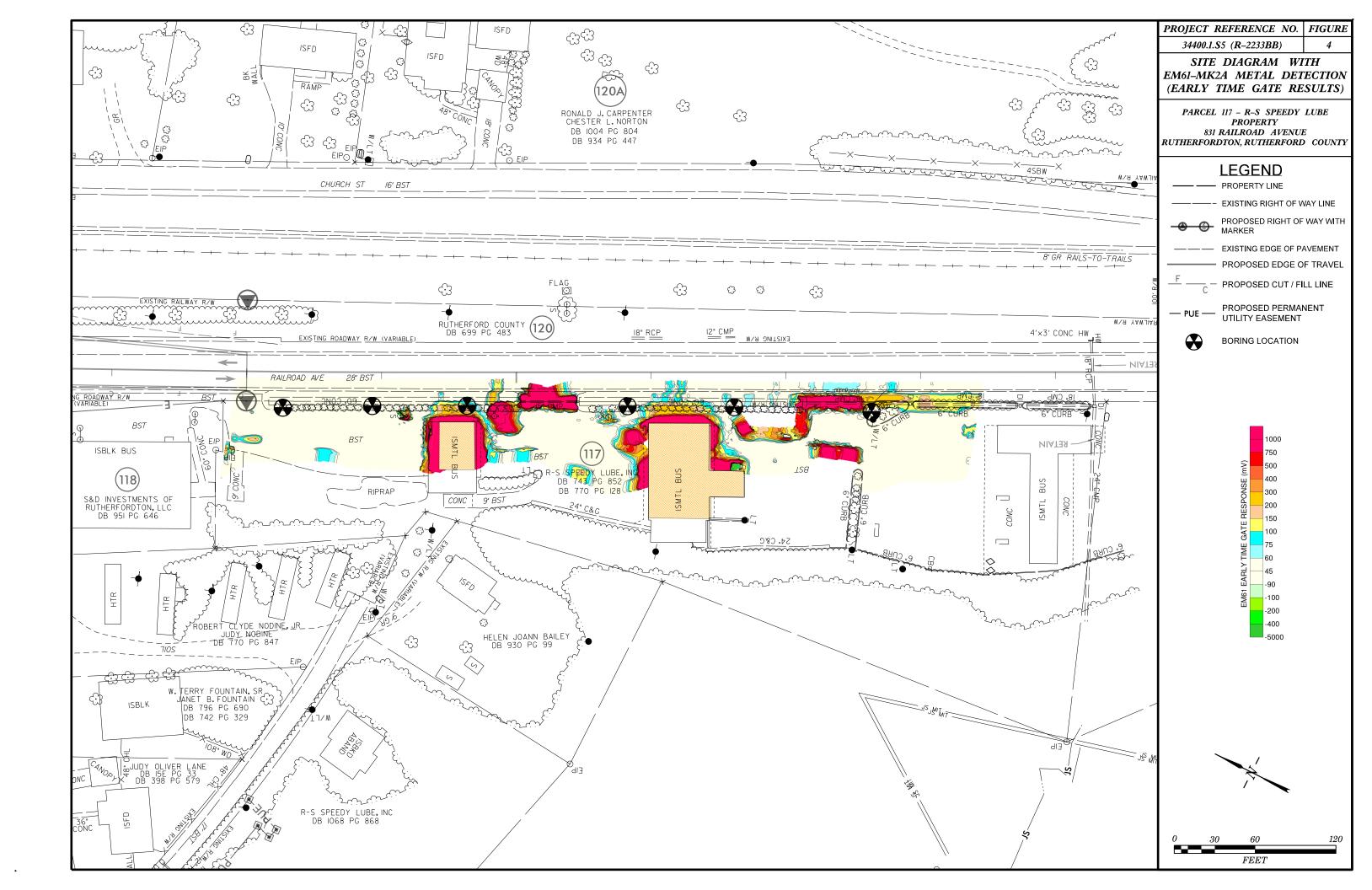
ignores smaller miscellaneous, metal debris. Ground penetrating radar (GPR) scans were conducted across selected EM61 anomalies and areas containing reinforced concrete using a Geophysical Survey Systems SIR 3000 unit with a 400 MHz antenna. The geophysical investigation was conducted on July 28 and August 2, 2017.

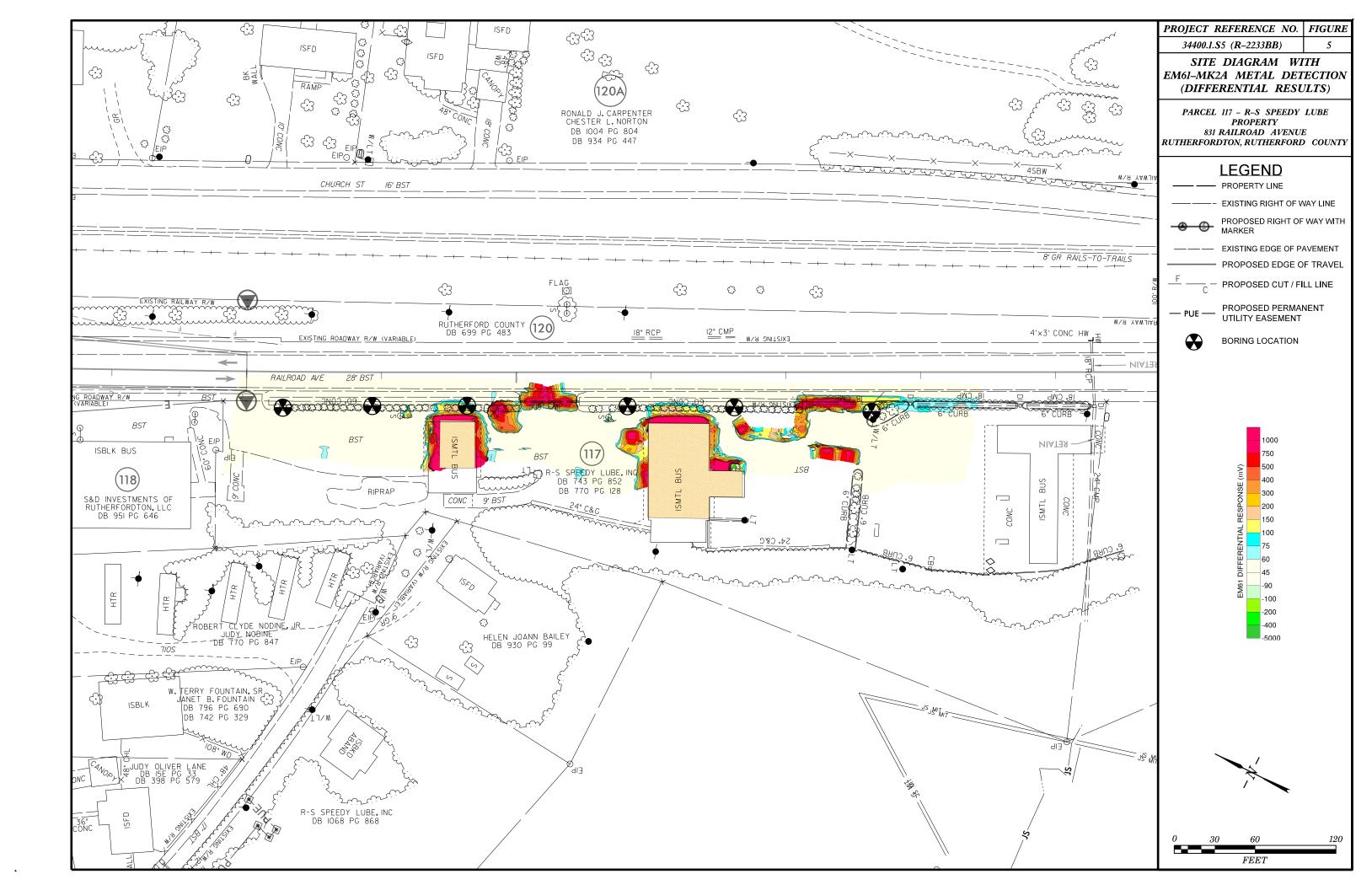
> EM61-MK2A METAL DETECTION (DIFFERENTIAL RESULTS)

TERRACON, INC.

R S Speedy Lube Property (Parcel 117) 831 & 841 Railroad Avenue Rutherford County, North Carolina







APPENDIX B BORING LOGS

| | | | | SOIL BO | oring l | OG |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------|-------------------------------------------------------------------------|----------|---------|-------------------------------------------------------|
| PROJECT NA | | | beedy Lube | | | SOIL BORING I.D. B-118-1 |
| PROJECT NO | O. 7117732 | 23 | | | | DATE(S) DRILLED: August 14, 2017 |
| | | | | | | |
| PROJECT LC | | | I Railroad Avenu | | | DRILLING CONTR: Innovative Environmental Technologies |
| | | Rutherfordto | n, North Carolina | 1 | | DRILL METHOD: Direct Push |
| | | | | | | BORING DIAMETER: 2 inches |
| CLIENT: Nort | th Carolina I | Department | of Transportation | I | | SAMPLING METHOD/INTERVAL: GP (5-Foot) |
| LOGGED BY | : S. Alex Cl | hinery | | | | REMARKS: BGS = below grade surface |
| DESCRIPTIV | 'E LOG | | | | | |
| SAMPLE | SAMPLE | BLOWS | PID/FID | GRAPHIC | DEPTH | |
| INTERVAL | REC. (IN.) | PER 6" | (ppm) | COLUMN | (FT) | DESCRIPTION OF SOIL |
| | | | | | 0.0 | |
| | | | | | 0.5 | |
| | | | | | 1.0 | |
| | | | | | 1.5 | |
| | | | | | 2.0 | |
| | | | | | 2.5 | |
| | | | | | 3.0 | |
| | | | | | 3.5 | |
| | | | | | 4.0 | |
| | | | | | 4.5 | |
| 0-5.0 | | NA | 1.3 | | 5.0 | |
| | | | | | 5.5 | |
| | | | | | 6.0 | |
| | | | | | 6.5 | |
| | | | | | 7.0 | orange silty clay |
| | | | | | 7.5 | |
| | | | | | 8.0 | |
| | | | | | 8.5 | |
| | | | | | 9.0 | |
| | | | | | 9.5 | |
| 5.0-10.0 | | NA | 1.7 | | 10.0 | |
| | | | | | 10.5 | |
| | | | | | 11.0 | |
| | | | | | 11.5 | |
| | | | | | 12.0 | |
| | | | | | 15.5 | |
| | | | | | 13.0 | |
| | | | | | 13.5 | |
| | | | | | 14.0 | |
| 40.0.1= - | | | | | 14.5 | |
| 10.0-15.0 | | NA | 1.6 | | 15.0 | BORING TERMINATED AT 15 FEET BGS |
| | ┝──┤ | | | | 15.5 | |
| | + | | | | 16.0 | |
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| DRILLING METH AR - AIR ROTAR' CFA - CONTINUC DC - DRIVEN CA HA - HAND AUGE HSA - HOLDW S | y DUS FLIGHT AU SING ER STEM AUGER | JGER S | AMPLING METHODS S - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE | | | llerracon |
| MD - MUD DRILL RC - ROCK CORI WR - WATER RO | ING | | - Sample collected for ND = <1 ppm | andiyələ | | |

| | | | | SOIL E | BORING L | .0G |
|----------------------------------|------------|--------------|---------------------------------------------------------|--------------|------------|-------------------------------------------------------|
| PROJECT N | AME: Parce | l 117 -RS Sp | beedy Lube | | | SOIL BORING I.D. B-118-2 |
| PROJECT N | 0. 7117732 | 23 | | | | DATE(S) DRILLED: August 14, 2017 |
| | | | | | | |
| PROJECT LO | | | 1 Railroad Ave | | | DRILLING CONTR: Innovative Environmental Technologies |
| | | Rutherfordto | n, North Carol | ina | | DRILL METHOD: Direct Push |
| | | | | | | BORING DIAMETER: 2 inches |
| | | | of Transportati | on | | SAMPLING METHOD/INTERVAL: GP (5-Foot) |
| LOGGED BY | | hinery | | | | REMARKS: BGS = below grade surface |
| DESCRIPTIV | E LOG | | | | | |
| SAMPLE | SAMPLE | BLOWS | PID/FID | GRAPHIC | DEPTH | |
| INTERVAL | REC. (IN.) | PER 6" | (ppm) | COLUMN | (FT) | DESCRIPTION OF SOIL |
| | | | | | 0.0 | |
| | | | | | 0.5 | |
| | | | | | 1.0 | |
| | | | | | 1.5 | |
| | | | | | 2.0 | |
| | ├ | | | | 2.5 | brown/gray sandy clay |
| | | | | | 3.0 | |
| | | | | | 3.5 | |
| | | | | | 4.0 | |
| 0.5.0 | | NIA | 2.5 | | 4.5 | |
| 0-5.0 | | NA | 2.5 | | 5.0 | |
| | | | | | 5.5 | |
| | ┟──┤ | | | | 6.0 6.5 | |
| | | | | | 7.0 | |
| | | | | | 7.0 | |
| | | | | | 8.0 | |
| | | | | | 8.5 | |
| | | | | | 9.0 | |
| | | | | | 9.5 | brown/gray/orange sandy clay |
| 5.0-10.0 | | NA | 1.6 | | 10.0 | brown, gruy, brunge sundy bluy |
| 0.0 10.0 | | 107 | | | 10.5 | |
| | | | | | 11.0 | |
| | | | | | 11.5 | |
| | | | | | 12.0 | |
| | | | | | 15.5 | |
| | | | | | 13.0 | |
| | | | | | 13.5 | |
| | | | | | 14.0 | |
| | | | | | 14.5 | |
| 10.0-15.0 | | NA | 1.4 | | 15.0 | BORING TERMINATED AT 15 FEET BGS |
| | | | | | 15.5 | |
| | | | | | 16.0 | |
| | | | | | | |
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| DRILLING METH | Y | 1050 | SAMPLING METHO | DS | | |
| CFA - CONTINUC DC - DRIVEN CA | SING | | SS - SPLIT SPOON ST - SHELBY TUB | | | |
| HA - HAND AUGI HSA - HOLLOW | STEM AUGER | | GP - GEOPROBE | | | lerracon |
| MD - MUD DRILL RC - ROCK COR | ING | * | Sample collected ND = <1 ppm | for analysis | | |
| WR - WATER RC | | | F | | | |
| | | | | | | |

| PROJECT N | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|---------|-------|-------------------------------------------------------|
| | | | eedy Lube | | | SOIL BORING I.D. B-118-3 |
| PROJECT N | U. 7117732 | 23 | | | | DATE(S) DRILLED: August 14, 2017 |
| | | 831 and 0/4 | Railroad Avenu | 0 | | DRILLING CONTR: Innovative Environmental Technologies |
| PROJECT L | | | n, North Carolina | | | DRILLING CONTR. Innovative Environmental Technologies |
| | | Rumenoidio | n, North Carolina | 1 | | BORING DIAMETER: 2 inches |
| | th Carolina I | | of Transportation | | | SAMPLING METHOD/INTERVAL: GP (5-Foot) |
| LOGGED BY | | | | | | REMARKS: BGS = below grade surface |
| DESCRIPTIN | | linery | | | | ICLINAINS. BGS - below grade surface |
| SAMPLE | SAMPLE | BLOWS | PID/FID | GRAPHIC | DEPTH | |
| INTERVAL | REC. (IN.) | PER 6" | (ppm) | COLUMN | (FT) | DESCRIPTION OF SOIL |
| | - () | - | 41.7 | | 0.0 | |
| I | | | | | 0.5 | |
| | | | | | 1.0 | |
| | | | | | 1.5 | |
| | | | | | 2.0 | |
| | 1 1 | | | | 2.5 | 1 |
| | | | | | 3.0 | 1 |
| | | | | | 3.5 | 1 |
| | | | | | 4.0 | 1 |
| | | | | | 4.5 | 1 |
| 0-5.0 | | NA | 1.6 | | 5.0 | 1 |
| | | | | | 5.5 | |
| | | | | | 6.0 | |
| | | | | | 6.5 | brown/orange sandy clay |
| | | | | | 7.0 | |
| | | | | | 7.5 | |
| | | | | | 8.0 | |
| | | | | | 8.5 | |
| | | | | | 9.0 | |
| | | | | | 9.5 | |
| 5.0-10.0 | | NA | 1.6 | | 10.0 | |
| | | | | | 10.5 | |
| | | | | | 11.0 | |
| | | | | | 11.5 | |
| | | | | | 12.0 | |
| | | | | | 15.5 | |
| | | | | | 13.0 | |
| | | | | | 13.5 | |
| | ↓ ↓ | | | | 14.0 | |
| | | | | | 14.5 | |
| 10.0-15.0 | | NA | 1.6 | | 15.0 | BORING TERMINATED AT 15 FEET BGS |
| | | | | | 15.5 | |
| | ┥──┤ | | | | 16.0 | |
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| DRILLING METH AR - AIR ROTAF CFA - CONTINU DC - DRIVEN C/ HA - HAND AUG HSA - HOLLOW MD - MUD DRILI RC - ROCK COF WR - WATER R(| IY OUS FLIGHT AU ASING ER STEM AUGER LING UNG | JGER S | AMPLING METHODS S - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE - Sample collected for ND = <1 ppm | | I | Terracon |

| RC - ROCK COR WR - WATER RC | | | ND = <1 ppm | | | |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|-------------------|---------------|--------------------------------------------------------------------|
| DRILLING METH AR - AIR ROTAR CFA - CONTINUO DC - DRIVEN CA HA - HAND AUG HSA - HOLLOW MD - MUD DRILL | Y DUS FLIGHT AL ISING ER STEM AUGER ING | JGER S | AMPLING METHODS S - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE • Sample collected for | | | llerracon |
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| | | | | | | |
| | $\left \right $ | | | | 16.0 | |
| | | | - | | 15.5 | |
| 10.0-15.0 | 1 | NA | 1.6 | | 14.5 15.0 | BORING TERMINATED AT 15 FEET BGS |
| | ┨ | | | | 14.0 | |
| | | | | | 13.5 | |
| | | | | | 15.5 13.0 | |
| | | | | | 12.0 | |
| | | | | | 11.5 | |
| | | | | | 10.5 11.0 | |
| 5.0-10.0 | ┟──┤ | NA | 1.7 | | 10.0 | |
| | | | | | 9.5 | |
| | | | | | 9.0 | |
| | | | | | 8.0 8.5 | |
| | | | | | 7.5 | |
| | | | | | 7.0 | blown for ange sandy day |
| | | | | | 6.0 6.5 | brown/orange sandy clay |
| | | | | | 5.5 | |
| 0-5.0 | | NA | 1.4 | | 5.0 | |
| | | | | | 4.0 | |
| | | | | | 3.5 | |
| | | | | | 3.0 | |
| | | | | | 2.5 | |
| | | | | | 1.5 2.0 | |
| | ┟──┤ | | | | 1.0 | |
| | | | | | 0.5 | |
| INTERVAL | REC. (IN.) | FERO | (ppm) | COLOMIN | 0.0 | |
| SAMPLE INTERVAL | SAMPLE REC. (IN.) | BLOWS PER 6" | PID/FID | GRAPHIC COLUMN | DEPTH (FT) | DESCRIPTION OF SOIL |
| DESCRIPTIV | | - | | | - | - |
| LOGGED BY | | | | I | | REMARKS: BGS = below grade surface |
| | th Carolina [| Doportmont | of Transportatior | | | BORING DIAMETER: 2 inches SAMPLING METHOD/INTERVAL: GP (5-Foot) |
| | I | Rutherfordto | n, North Carolina | a | | DRILL METHOD: Direct Push |
| PROJECT LO | DCATION: | 831 and 841 | Railroad Avenu | e | | DRILLING CONTR: Innovative Environmental Technologies |
| RUJECT N | 0. 7117732 | .3 | | | | DATE(3) DRILLED. August 14, 2017 |
| | 0.7117732 | | | | | DATE(S) DRILLED: August 14, 2017 |
| PROJECT N | AME: Parce | 117 -RS Sc | eedvlube | | | SOIL BORING I.D. B-118-4 |

| | | | | SOIL B | oring l | |
|----------------------------------|---------------------------|--------------|---------------------------------------|----------|--------------|-------------------------------------------------------|
| PROJECT N/ | | | eedy Lube | | | SOIL BORING I.D. B-118-5 |
| PROJECT N | D. 7117732 | 3 | | | | DATE(S) DRILLED: August 14, 2017 |
| | | | | | | |
| PROJECT LO | | | Railroad Avenu | | | DRILLING CONTR: Innovative Environmental Technologies |
| | I | Rutherfordto | n, North Carolina | 3 | | DRILL METHOD: Direct Push |
| | | | | | | BORING DIAMETER: 2 inches |
| | | | of Transportation | 1 | | SAMPLING METHOD/INTERVAL: GP (5-Foot) |
| LOGGED BY | | ninery | | | | REMARKS: BGS = below grade surface |
| DESCRIPTIV | r - r | | | | | |
| SAMPLE INTERVAL | SAMPLE | BLOWS | PID/FID | GRAPHIC | DEPTH | DESCRIPTION OF SOIL |
| INTERVAL | REC. (IN.) | PER 6" | (ppm) | COLUMN | (FT) | DESCRIPTION OF SOIL |
| | | | | | 0.0 | |
| | | | | | 1.0 | |
| | | | | | 1.5 | |
| | | | | | 2.0 | |
| | | | | | 2.0 | |
| | | | | | 3.0 | |
| | | | | | 3.5 | |
| | | | | | 4.0 | |
| | | | | | 4.5 | brown/orange sandy clay |
| 0-5.0 | | NA | 1.6 | | 5.0 | |
| | | | | | 5.5 | |
| | | | | | 6.0 | |
| | | | | | 6.5 | |
| | | | | | 7.0 | |
| | | | | | 7.5 | |
| | | | | | 8.0 | |
| | | | | | 8.5 | |
| | | | | | 9.0 | |
| | | | | | 9.5 | |
| 5.0-10.0 | | NA | 1.5 | | 10.0 | |
| | | | | | 10.5 | |
| | | | | | 11.0 | |
| | | | | | 11.5 | |
| | | | | | 12.0 12.5 | brown/orongo/ton condu alou |
| | | | | | 12.5 | brown/orange/tan sandy clay |
| | | | | | 13.5 | |
| | | | | | 14.0 | |
| | | | | | 14.5 | |
| 10.0-15.0 | | NA | 1.6 | | 15.0 | BORING TERMINATED AT 15 FEET BGS |
| | | | | | 15.5 | |
| | | | | | 16.0 | |
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| DRILLING METH | ODS | | | | | |
| AR - AIR ROTAR CFA - CONTINUC | Y | JGER S | AMPLING METHODS S - SPLIT SPOON | | | |
| DC - DRIVEN CA | SING | : | ST - SHELBY TUBE GP - GEOPROBE | | | |
| HSA - HOLLOW S | STEM AUGER | | | analyzic | | lerracon |
| MD - MUD DRILL RC - ROCK COR | ING | *. | - Sample collected for ND = <1 ppm | analysis | | |
| WR - WATER RC | NARY | | | | | |

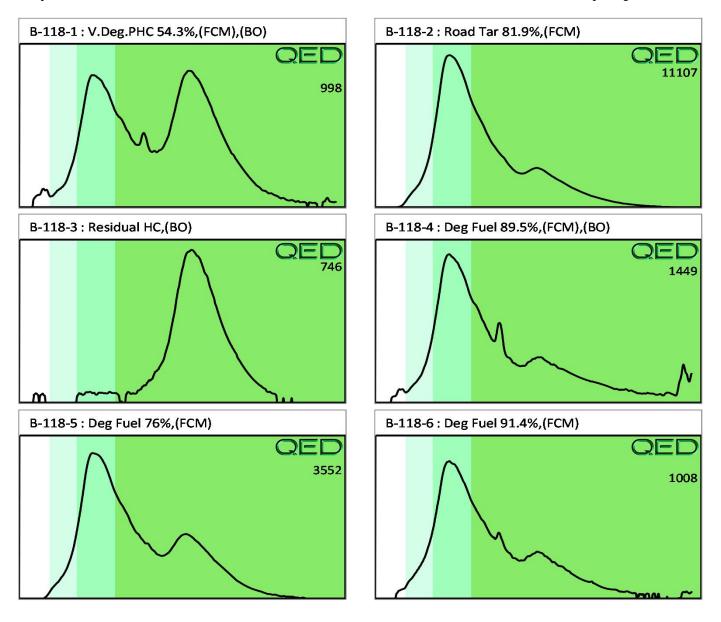
| PROJECT NAME: Parcel 117 - RS Speedy Lube PROJECT NO. 71177323 DATE(S) DRILLED: August 14, 2017 PROJECT LOCATION: 831 and 641 Railroad Avenue Rutherfordon, North Carolina DRILL METHOD: Direct Push BORING DIAMETER: 2 Inches SAMPLIA BETODINITERVIL: GP (5-Foot) REMARKS: BGS = below grade surface DESCRIPTUE DESCRIPTUE SAMPLIA BETORN DIRECTION OF SOIL SAMPLIA BETORN DIRECTION DIRECTION OF SOIL SAMPLIA BETORN DIRECTION DIRECTION OF SOIL SAMPLIA BETORN DIRECTION DIRECTION DIRECTION OF SOIL SAMPLIA BETORN DIRECTION DIREC | MD - MOD DRIEI RC - ROCK COF WR - WATER RC | RING | | ND = <1 ppm | anaiyolo | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|---------------|------------------------------------------------------|----------|-----|----------------------------------|
| PROJECT NAME: Parcal 117 -RS Speedy Lube SOIL BORING ID. B-118-6 PROJECT NO. 71177323 DATE(5) DRILLED. August 14, 2017 PROJECT NO. 71177323 DRILLING CONTR: Innovative Environmental Technologies. DRILLING CONTR: Innovative Environmental Technologies. DRILING TECHNOLOGIES. DRILLING CONTR: Innovative Enviro | AR - AIR ROTAF CFA - CONTINU DC - DRIVEN CA HA - HAND AUG HSA - HOLLOW | RY OUS FLIGHT AL ASING ER STEM AUGER | JGER S | S - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE | | | llerracon |
| PROJECT NAME: Parcal 117 -RS Speedy Lube SOIL BORING ID. B-118-6 PROJECT NO. 71177323 DATE(5) DRILLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILLING CONTR: Innovative Environmental Technologies. DRILLING CONTR: Innovative Environmental Technologies. DRILLING CONTR: Innovative Environmental Technologies. CLIENT: North Carolina Department of Transportation SAMPLIAL METHOD DIRER Val.: GP (5-Foot) OGGED BY: S. Alex Chinery REMARKS: BGS = below grade surface DESCRIPTVE LOG 0.0 SAMPLE BLOWS PIDED COLUNN SAMPLE BLOWS PIDED COLUNN INTERVAL RE. (N) REC. (N) PER 6" GRAPHIC 0.0 INTERVAL REC. (N) | | | | | | | |
| SOLIE CT NAME: Parcal 117 -RS Speedy Lube SOIL BORING I.D. B-118-6 ROJECT NO. 71177323 DATE(5) DRILLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILLING CONTR: Innovative Environmental Technologies. DRILLING CONTR: Innovative Environmental Technologies. COGED BY: S. Alex Chinory DRILLING CONTR: Innovative Graphics SAMPLUME TER: 2 inches SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPL BLOWS PIDITID COLUMN COLUMN INTERVAL RC.(IN) PER 6* PIDITID COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PER 6* PIDITID COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PER 6* PIDITID COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PER 6* PIDITID COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PIDITID COLUMN COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PIDITID COLUMN COLUMN DESCRIPTION OF SOIL INTERVAL RC.(IN) PIDITID | | | | | | | |
| Soll BORING ID. B-118-6 DATE(5) DRLLED: August 14, 2017 ROJECT NO. 71177323 DATE(5) DRLLED: August 14, 2017 PROJECT LOCATION: B31 and 841 Railroad Avanue Rutherfordton, North Carolina DRLLING CONTR: Innovative Environmental Technologies. DRLLING CONTR: Innovative Environmental Technologies. DRUET LOCATION: A stransportation SAMPLE DRLLING CONTR: Innovative Environmental Technologies. COGED BY: S. Alex Chinery REMARKS: BGS = below grade surface DESCRIPTIVE LOG SAMPLE BLOWS PLOYID COLUMN SAMPLE BLOWS PLOYID COLUMN NREVAL RC. NN PER 6" 0.0 NREVAL RC. NN PER 6" 0.0 INTERVAL RC. NN 1.0 0.0 INTERVAL RC. NN 1.17 5.0 INTERVAL RC. NN 1.7 5.0 INTERVAL INA 1.7 5.0 INA 1.7 5.0 5.0 INA 0.9 10.0 5.0 INA 0.9 10.0 5.0 INA 0.9 10.0 | | | | | | | |
| Solic EOR NAME: Parcel 117 -RS Speedy Lube SOIL EORING LD. B-118-6 ROJECT NO. 71177523 DATE(5) ORLLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILLING CONTR: Innovative Environmental Technologies DRILL METHOD: Direct Push BORING DIAMETER: 2 inches SLIENT: North Carolina Department of Transportation SAMPLIA SAMPLIA SAMPLE SAMP NOT Transportation SAMPLING METHOD: Direct Push BORING DIAMETER: 2 inches SAMPLE RC. (N) PER 6" COUNN SAMPLE RC. (N) PER 6" COUNN SAMPLE RC. (N) PER 6" COUNN COLUMN COLUMN COUNN DESCRIPTION OF SOIL SAMPLE RC. (N) PER 6" COUNN COUNN COLUMN 1.0 2.0 COUNN COUNN COLUMN 0.0 5.0 S.6 COUNN FT COLUMN COUNN 2.0 S.6 COUNN FT COUNN RC. (N) PER 6" COUNN COUNN FT DESCRIPTION OF SOIL Counce COUNN | | | | | | | 1 |
| Solic EOR NAME: Parcel 117 -RS Speedy Lube SOIL EORING LD. B-118-6 ROJECT NO. 71177523 DATE(5) ORLLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILLING CONTR: Innovative Environmental Technologies DRILL METHOD: Direct Push BORING DIAMETER: 2 inches SLIENT: North Carolina Department of Transportation SAMPLIA SAMPLIA SAMPLE SAMP NOT Transportation SAMPLING METHOD: Direct Push BORING DIAMETER: 2 inches SAMPLE RC. (N) PER 6" COUNN SAMPLE RC. (N) PER 6" COUNN SAMPLE RC. (N) PER 6" COUNN COLUMN COLUMN COUNN DESCRIPTION OF SOIL SAMPLE RC. (N) PER 6" COUNN COUNN COLUMN 1.0 2.0 COUNN COUNN COLUMN 0.0 5.0 S.6 COUNN FT COLUMN COUNN 2.0 S.6 COUNN FT COUNN RC. (N) PER 6" COUNN COUNN FT DESCRIPTION OF SOIL Counce COUNN | | | | | | | |
| SAULECT NAME: Parcel 117 -RS Speedy Lube SOIL BORING I.D. B-118-6 ROJECT NO. 71177323 DATE(5) ORILLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILLING CONTR: Innovitive Environmental Technologies DRILL METHOD: Direct Push BORING DIAMETER: 2 inches SLIENT: North Carolina Department of Transportation SAMPLIA SAMPLIA SAMPLE BLOWS PID/FID GRAPHIC SAMPLE BLOWS PID/FID COLUMN SAMPLE BLOWS PID/FID COLUMN SAMPLE BLOWS PID/FID COLUMN COLUMN SAMPLE BLOWS PID/FID COLUMN COLUMN SAMPLE BLOWS PID/FID COLUMN COLUMN COLUMN 0.0 COLUMN COLUMN COLUMN INTERVAL RC. (N) PER 6" COLUMN COLUMN COLUMN COLUMN 0.0 COLUMN 0.0 COLUMN COLUMN COLUMN INTERVAL RC. (N) PER 6" COLUMN COLUMN COLUMN COLUMN | | | | | | | 1 |
| SINUL State Solid BORING LD. B-118-6 ROJECT NO. 71177323 DATE(5) DRILLED: August 14, 2017 PROJECT NO. 71177323 DATE(5) DRILLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Raliroad Avenue Rutherfordton, North Carolina DRILLING CONTE: Innovative push BORING DIAMETER: 2 inches SULENT: North Carolina Department of Transportation SAMPLING METHOD/INTERVAL: GP (5-Foot) OGGED BY: S. Alex Chinery REMARKS: BGS = below grade surface DESCRIPTIVE LOG ELOWS SAMPLIE SAMPLIE SMAPLIE BLOWS PIDERD COLUMN COLUMN (PT) DESCRIPTIVE LOG DESCRIPTION OF SOIL SAMPLIE BLOWS PIDERD COLUMN MARKB: BLOWS PIDERD COLUMN COLUMN COLUMN MARKB: BLOWS PIDERD COLUMN COLUMN (PT) DESCRIPTION OF SOIL DESCRIPTION OF SOIL Column 1.5 Column 4.5 Sold Column DOSO NA </td <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> | | + | | | | | |
| SOIL BORING I.D. B-118-6 ROJECT NO. 7117723 DATE(S) DRILLED: August 14, 2017 PROJECT NO. 7117723 DRILLING CONTR: Innovative Environmental Technologies DRILL METHOD: Direct Push BORING DIAMETR: 2 inches SUENT: North Carolina Department of Transportation OGGED BY: S. Alex Chinery SAMPLE REC. (N) DRILLING CONTR: Innovative Environmental Technologies DRILL METHOD: Direct Push BORING DIAMETR: 2 inches SAMPLE SAMPLE (ppm) COLUMN (pm) EECRIPTIVE LOG REMARKS: BGS = below grade surface SAMPLE INTERVAL REC. (N) PEP er (ppm) COLUMN (pm) INTERVAL REC. (N) PEP er (ppm) DESCRIPTION OF SOIL INTERVAL REC. (N) NA 1.7 INTERVAL REC. (N) NA 1.7 INT INT INT | 10.0-15.0 | | NA | 1.5 | | | BORING TERMINATED AT 15 FEET BGS |
| Soll BORING I.D. B-118-6 PROJECT NAME: Parcel 117 -RS Speedy Lube SOIL BORING I.D. B-118-6 PROJECT NO. 71177323 DATE(S) DRILLED: August 14, 2017 PROJECT LOCATION: 831 and 841 Railroad Avenue Rutherfordton, North Carolina DRILL METHOD: Direct Push BORING DMANETR: 2 inches 2LIENT: North Carolina Department of Transportation SAMPLE North Carolina Department of Transportation SAMPLE NORTH: Innovative Environmental Technologies SECRIPTIVE CO REMARKS: BGS = below grade surface DESCRIPTION OF SOIL SAMPLE BLOWS PIDFID GRAPHIC (gem) DETT SAMPLE BLOWS PIDFID GRAPHIC DETT SAMPLE BLOWS PIDFID GRAPHIC DETT INTERVAL REC. (N) PER 6" (gem) COLUNN INTERVAL REC. (N) PER 6" 1.0 1.5 INTERVAL REC. (N) PER 6" 5.5 5.5 INTERVAL REC. (N) NA 1.7 5.0 INTERVAL INTERVAL INTERVAL SOIL INTERVAL INTERVAL SOIL SOIL | | | | | | | 1 |
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| PROJECT NAME: Parcel 117 -RS Speedy Lube SOIL BORING I.D. B-118-6 | | | | | | | |
| | | | | | | | |
| SOIL BORING LOG | | | 1117 _DQ Qr | oody Lubo | | | |

APPENDIX C LABORATORY ANAYLTICAL REPORT AND CHAIN OF CUSTODY

| Q | ED | | | Hydroca | P RAP | | ENTAL DIAGNO | B | | | _ | ♪ | QROS |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|----------------------------------|-----------------------------------|-------------------------------|----------------------------------|---------------------------|------------------------|-------------------------|--------------|-----------|----------------------------------------------------------------------------------|
| Client: Address | TERRACON CONSULTANTS 2020 E STARITA RD CHARLOTTE, NC 28206 | | | | | | | | Saı Sample Sampl | | acted | | Monday, August 14, 2017 Monday, August 14, 2017 Wednesday, August 16, 2017 |
| | ALEX CHINERY # 71177323 | | | | | | | | | Оре | erator | | PANTESCO |
| | | | | | | | | | | | | | H0938 |
| 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 | 5 | HC Fingerprint Match |
| | | | | | | | | | | C5 - C10 | C10 - C18 | C18 | |
| S | B-118-1 | 21.8 | <0.55 | 1.4 | 0.92 | 2.32 | 0.47 | <0.17 | <0.022 | 78.2 | 15.7 | 6.1 | V.Deg.PHC 54.3%,(FCM),(BO) |
| S | B-118-2 | 22.0 | <0.55 | <0.55 | 13.3 | 13.3 | 6.7 | 0.71 | <0.022 | 0 | 87.4 | 12.6 | Road Tar 81.9%,(FCM) |
| S | B-118-3 | 19.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 | <0.16 | <0.02 | 0 | 0 | 100 | Residual HC,(BO) |
| S | B-118-4 | 20.6 | <0.52 | <0.52 | 1 | 1 | 0.77 | <0.17 | <0.021 | 39.9 | 50.4 | 9.7 | Deg Fuel 89.5%,(FCM),(BO) |
| S | B-118-5 | 21.3 | <0.53 | <0.53 | 2.7 | 2.7 | 2.3 | <0.17 | <0.021 | 0 | 82.4 | 17.6 | Deg Fuel 76%,(FCM) |
| S | B-118-6 | 22.2 | <0.56 | <0.56 | 0.78 | 0.78 | 0.57 | <0.18 | <0.022 | 0 | 83.2 | 16.8 | Deg Fuel 91.4%,(FCM) |
| | | | | | | | | | | | | | |
| | Initial C | alibrator | QC check | OK | | | | | Final FC | CM QC (| Check | OK | 97.5 % |
| Abbreviatio B = Blank D | on values in mg/kg for soil samples and mg/ ns :- FCM = Results calculated using Funda rift : (SBS)/(LBS) = Site Specific or Library B timated aromatic carbon number proportion | amental Cali Background | oration Mode Subtraction | e : % = confic applied to res | lence of hydro sult : (BO) = B | ocarbon identi ackground O | ification : (PFM rganics detecte |) = Poor Fi ed : (OCR) | ngerprint Ma | tch : (T) al range : | = Turbic | d : (P) = | Particulate detected |

Project: # 71177323

QED Hydrocarbon Fingerprints



| C | | 30 | 0.16.17 1 Date/Time | | ime Accepted by | Date/Time | | shed by | Relinquished by |
|------------|-----------------------------------------|-------------|------------------------|--------|---------------------------|-----------------|------------|--------------------------------|-----------------|
|) | 2 | | n | | Time Accepted by | Date/Time | The BRACON | shed by | Relinquished by |
| VILY | RED Lab USE ONLY | REI | | | | | | | Comments: |
| | | | | | | | | | |
| E | 45.2 | 56.9 | | × | 19-118-0 | | 7 | | |
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| 112 | | 56.9 | | X | P | | X | | 16:12 |
| | 4.0 | 6.4.9 | | X | 1- | | | | 10:15 |
| | 44.8 | 56.10 | | X | B-118 - 2 | | | | 16:17 |
| 16. | 141 | 200.1 | | X | -118 - | | < × | | 15:06 |
| 12 | 9.44.6 | 0 +.4 | | × | -111- | | × | | 15:05 |
| 13.8 | 44.7 | 5,05 | | | - 411- | | X | | 15:13 |
| 10. | 44.5 | 55.3 | | \$ | -111- | | × | | 15:10 |
| 12 | 44.4 | 5-7-3 | | X | 1 | | × | | 13:13 |
| | 45.1 | 56.2 | | X | B-110-0 | | X | | 13:30 |
| | 45.1 | 56.5 | | X | 110 - | | ~ | | 12:19 |
| 10.9 | | 55.2 | | X | - 115 - | | <>> | | 13:22 |
| 12.4 | 44.5 | 56.9 | | × | . 115 - | | X | | 18:26 |
| Honlos | 449 | 55.3 | | × | 13-115 - 1 | V | ×× | | 50.51 / 11/Pila |
| Sample Wt. | Tare Wt. | Total Wt. | GC BTEX | UVF | Sample ID | Matrix (S/W) | 48 Hour | TAT Requested 24 Hour 48 Ho | 52 |
| | | | | IAD | | | | | |
| Bap | aromatics and Bap | articity of | IICAL | | DECHIEST FOR | ERL | NHINER | ALEX | Collected by: |
| analyze | RTEY GBO DOD TOU DATES for | RTFY GD | VTICAI | ANAIN | CHAIN OF CUSTODY AND ANAI | 2 | 575-6072 | - 404 | Phone #: |
| | | Each case | OSTICS | DIAGNO | RAPID ENVIRONMENTAL DIAGN | faun.com | inen et | alex chiney (et crean.com | Email: |
| | Wilmington, NC 28409 | Wilmington | | | | . 0 | 11177372 | | Project Ref.: |
| 2003 | MARBIONC Bldg, Suite 2003 | MARBIONC | IJ | | | Ĩ | CHINERY | ALEX | Contact: |
| ane | RED Lab, LLC 5598 Marvin K Moss Lane | S598 Marvin | | | | 28206 | (I) P | 2020 E STA | Address: |
| - | - | | | | | 01000000000 | | 1 CITANON | |