



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

December 3, 2013

MEMORANDUM TO: James F. Bridges
Rail Project Development Engineer
Rail Division

FROM: Craig Haden
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

TIP NO: Y-4810K
WBS: 40325
COUNTY: Cabarrus
DIVISION: 10
DESCRIPTION: Proposed Grade Separation crossing on Universal Street/Rogers Lake Road in Kannapolis.

SUBJECT: **GeoEnvironmental Report for Planning**

The GeoEnvironmental Section has completed the GeoEnvironmental Report for Planning. This report has the following components and is transmitted as:

X Hazardous Materials Report (20) pages

Please contact me if you have any questions concerning this project.

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www.ncdot.gov/doh/preconstruct/highway/geotech

LOCATION:
CENTURY CENTER COMPLEX
BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Hazardous Materials Report

The GeoEnvironmental Section of the Geotechnical Engineering Unit has investigated the above referenced project to identify hazardous material sites for inclusion in the environmental document.

HAZARDOUS MATERIALS EVALUATION

Purpose

This section presents the results of a hazardous material evaluation conducted along the above referenced project. The main purpose of this investigation is to identify properties within the project study area that are or may be contaminated and therefore result in increased project costs and future liability if acquired by the Department. Hazardous material impacts may include, but are not limited to, active and abandoned underground storage tank (UST) sites, hazardous waste sites, regulated landfills and unregulated dumpsites.

Techniques/Methodologies

The Geographical Information System (GIS) was consulted to identify known sites of concern in relation to the above mentioned project. GeoEnvironmental Section personnel conducted a field reconnaissance along the above mentioned project on November 25, 2013. A search of appropriate environmental agencies' databases and Sanborn Maps was performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

Based on our study, fourteen (14) sites may contain petroleum USTs within the project limits.

Hazardous Waste Sites

No Hazardous Waste Site was identified within the project limits.

Landfills

No apparent landfills were identified within the project limits.

Other GeoEnvironmental Concerns

Three other geoenvironmental concerns were identified within the project limits. Two auto repair shops and one equipment storage lot.

Anticipated Impacts

Fourteen (14) possible UST facilities, two auto repair shops, and one facility used to store tree trimming equipment were identified within the proposed project limits. We anticipate low monetary and scheduling impacts resulting from these sites. (See the following table and appendices for details)

Known and Potential Hazardous Material Sites

| | | | |
|----|--|--|------------------------|
| 1) | Property Name Morgan's Garage 1300 Todd Avenue Kannapolis, NC 28081 Facility ID #: N/A Incident #: N/A | Property Owner: Tommy Wayne Weatherford Daniel Ray Rosenbalm 5308 Randolph Road Kannapolis, NC 28081 UST Owner: N/A | Alternative # 1 |
|----|--|--|------------------------|



This facility operates as an auto repair shop. It is located on the west side of Todd Avenue approximately 125 feet south of Rogers Lake Road. This facility sits behind the residents at 405 Rogers Lake Road. This facility does not appear on the UST Section Registry. There is no evidence of any UST system and there are no ground water incident's associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

| | | | |
|----|---|--|------------------------|
| 2) | Property Name Out to Pasture 307 Triece Street Kannapolis, NC 28081 | Property Owner: Paul M. Poteat 1450 N. Main Street China Grove, NC 28023 | Alternative # 1 |
| | Facility ID #: N/A | UST Owner: N/A | |
| | Incident #: N/A | | |



This facility appears to be an out of business used auto part store/repair shop. It is the former location of Kannapolis Engine Service. It is located in the southwest quadrant of Triece Street and Sexton Street. The age and design of the building suggest it may have operated as a service station at one time. The facility does not appear on the UST Section Registry. There is no evidence of any UST system and there are no ground water incident's associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

| | | |
|----|---|--|
| 3) | Property Name Gio's Tire & Wheel Service 1404 S. Main Street Kannapolis, NC 28081 | Property Owner: Alternative # 1 Harry L. Smith 810 Rogers Lake Road Kannapolis, NC 28081 |
| | Facility ID #: 0-001912 | UST Owner: Harry L. Smith |
| | Incident# -UST #: MO-1949, MO-1950 | 1402 S. Main Street Kannapolis, NC 28081 |



This facility currently operates as auto tire and repair shop. It is the former location of Reds Oil Company. It is located in the northwest quadrant of S. Main Street and Tiece Street. There is one AST located on the south side of the building. According to the UST Section Registry two tanks were removed in 1993. This facility does appear in the ground water incident database by the UST # but there is no ground water incident # associated with this facility. No monitoring wells were noted on site. The ASTs for the former Oil Company were located in the northwestern corner of the property. **This site is anticipated to present low geoenvironmental impacts to the project.**

| | | | |
|----|---|---|------------------------|
| 4) | Property Name Gio's Tire & Wheel Warehouse 1402 S. Main Street Kannapolis, NC 28081 Facility ID #: 0-001913 Incident #: N/A | Property Owner: Harry L. Smith 810 Rogers Lake Road Kannapolis, NC 28081 UST Owner: Harry L. Smith 1402 S. Main Street Kannapolis, NC 28081 | Alternative # 1 |
|----|---|---|------------------------|



This facility currently operates as the warehouse for Gio's Tire & Wheel Service. It is the former location of Reds Service Station. It is located on the west side of S. Main Street approximately 170 feet north of Tiece Street. The pump island is located approximately 20 feet from the edge of pavement on S. Main St. Two ASTs are located in the northwestern corner of the building. According to the UST Section Registry three tanks were removed in 1989. There is no ground water incident associated with this facility and no monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|----|---|---|------------------------|
| 5) | Property Name Sales Office (Former Atomic Oil Co) 129 Rogers Lake Road Kannapolis, NC 28081 | Property Owner: Lance & Frances Middleton 1132 Windsor Drive Kannapolis, NC 28081 | Alternative # 1 |
| | Facility ID #: 0-007143 Incident # - UST #: MO-0157 | UST Owner: Atomic Oil Co 103 W. Universal Street (129 Rogers Lake Rd) Kannapolis, NC 28081 | |



The building on this property is currently used as a sales office. The type of business is unknown. It is the former location of Atomic Oil Company. It is located on the south side of Rogers Lake Road approximately 260 feet west of S. Main Street. According to the UST Section Registry two tanks were removed in 1989. The facility does appear in the ground water incident database by the UST # but there is no ground water incident # associated with this facility. No monitoring wells were noted on site. The ASTs for the former Oil Company were located on the southern portion of the property. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|----|---|---|------------------------|
| 6) | Property Name Hobbs Mixed Martial Arts 1400 S. Main Street. 101 Rogers Lake Rd Kannapolis, NC 28081 Facility ID #: N/A Incident #: N/A | Property Owner: Adam Cantero Juan Preciada 6506 S. Kimball Street Hodgkins, IL, 60525 UST Owner: N/A | Alternative # 1 |
|----|---|---|------------------------|



There are two address associated with this parcel. The parcel is located in the south west quadrant of S. Main Street and Rogers Lake Road. The main building operates as Hobbs Martial Arts, the second building appears to be a vacant shop/garage. Neither facility appears on the UST Section Registry. There is no evidence of any UST system and there is no ground water incident associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|----|--|--|------------------------|
| 7) | Property Name CJ Moss Real Estate 1401 S. Main Street Kannapolis, NC 28081 Facility ID #: 0-007932 Incident #: N/A | Property Owner: Claude J. Moss Trustee Montine M. Moss Trustee 1281 Madison Avenue Kannapolis, NC 28081 UST Owner: C.J. Moss Real Estate. Inc. 1401 S. Main Street Kannapolis, NC 28081 | Alternative # 1 |
|----|--|--|------------------------|



This facility currently operates as a Real Estate office. It is located in the south east quadrant of S. Main Street and Rogers Lake Road. According to the UST Section Registry one tank was removed in 1991. There appears to be a UST located near the south east corner of the building. No monitoring wells were noted on site and there is no ground water incident associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|----|---|--|------------------------|
| 8) | Property Name Paws & Claws 1403 S. Main Street Kannapolis, NC 28081 | Property Owner: Joe & Ava Plott 32052 Rowland Road Albemarle, NC 28001 | Alternative # 1 |
| | Facility ID #: N/A | UST Owner: N/A | |
| | Incident #: N/A | | |



This facility currently operates as pet grooming salon. It once operated as Childress Used Car .It is located on the east side of S. Main Street approximately 250 feet south of Rogers Lake Road. The facility does not appear on the UST Section Registry. There is no evidence of any UST system and there is no ground water incident associated with this facility. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|----|---|---|------------------------|
| 9) | Property Name Full Detail Car Wash 1416-1414 S. Ridge Avenue Kannapolis, NC 28083 | Property Owner: Mrs. W.D. Middleton 1132 Windsor Drive Kannapolis, NC 28081 | Alternative # 1 |
| | Facility ID #: 0-004162, 0-027579 Incident # - UST #: MO-1427 | UST Owner: Wilhelimenia J. Middleton 1000 Pols Avenue Kannapolis, NC 28081 | |



This facility currently operates as a full service car wash. It previously operated as a service station and an automatic coin operated car wash. It is located on the west side of S. Ridge Avenue approximately 480 feet south of Rogers Lake Road. There are three pump islands located in front of the former service station and one in ground hydraulic car lift located on the south side of the former service station. According to the UST Section Registry three tanks were closed in 1983, one in 1984 and four in 1989. The facility does appear in the ground water incident database by the UST # but there is no ground water incident # associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|---|---|------------------------|
| 10) | Property Name Le Bleu's Towing 1412 S. Ridge Avenue Kannapolis, NC 28083 Facility ID #: 0-007666 Incident #-UST #: 20355, MO-5762 | Property Owner: Troy & Pauline Day PO Box 6 1912 S. Ridge Avenue Kannapolis, NC 28082 UST Owner: Troy Day 1620 Eastwood Drive Kannapolis, NC 28081 | Alternative # 1 |
|-----|---|---|------------------------|



This facility currently operates as a storage lot for Le Bleu's Towing. The facility previously operated as Patriot Auto Service and as European Import Classics. It is located on the west side of S. Ridge Avenue approximately 200 feet south of Rogers Lake Road. According to the UST Section Registry three tanks were registered to European Import Classics and were closed in 1991. Ground water incident # 20355 is assigned to this facility. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|---|---|------------------------|
| 11) | Property Name A-Team Wireless 1400 S. Ridge Avenue Kannapolis, NC 28083 | Property Owner: John R. Triage Trustee Phillip T. Triage Trustee 827 Evergreen Avenue Kannapolis, NC 28081 | Alternative # 1 |
| | Facility ID #: N/A Incident #: N/A | UST Owner: N/A | |



This facility currently operates as cell phone retail store. It is the former location of Plain or Fancy Catering. It is located in the south west quadrant of S. Ridge Ave. and Rogers Lake Rd. There is no evidence of any UST system but the age and the design of portion of the building that has not been remodeled suggest it could have operated as an old service station. The facility does not appear on the UST Section Registry. There is no ground water incident associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|--|---|------------------------|
| 12) | Property Name Kleen Cut Tree Service 1309 S. Ridge Ave. Kannapolis, NC 28083 | Property Owner: Patricia Cook 1069 Canoby Ct Woodleaf, NC 27054 | Alternative # 2 |
| | Facility ID #: N/A | UST Owner: N/A | |
| | Incident #: N/A | | |



This facility is used by Kleen Cut tree service for equipment storage. It is located in the north east quadrant of S. Ridge Avenue and Rogers Lake Road. The facility does not appear on the UST Section Registry. There is no ground water incident associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|--|---|--------------------------|
| 13) | Property Name Mutt Hut 1311 S. Ridge Avenue Kannapolis, NC 28083 | Property Owner: Teresa Hamilton 112 Dunsmere Lane Mooresville, NC 28115 | Alternative # 2,3 |
| | Facility ID #: N/A | UST Owner: N/A | |
| | Incident #: N/A | | |



This facility currently operates as a pet grooming salon. It is located on the east side of S. Ridge Avenue approximately 180 north of Rogers Lake Rd. There was one UST identified in the front lawn approximately 15 feet from the edge of pavement. The facility does not appear on the UST Section Registry. There is no ground water incident associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

14) **Property Name**
Former Triage Block Company
1310-1306 S. Ridge Avenue
Kannapolis, NC 28083

Facility ID #: N/A
Incident #: N/A

Property Owner:
John R. Triage Trustee
Phillip T. Triage Trustee
827 Evergreen Avenue
Kannapolis, NC 28081
UST Owner: N/A

Alternative # 2,3



This vacant lot is the former location of Triage Block Company. It is located in the north west quadrant of S. Ridge Avenue and Rogers Lake Road. The vacant lot was recently used as a construction staging area for the recent upgrade to S. Ridge Avenue and Rogers Lake Road Intersection and rail crossing. The facility does not appear on the UST Section Registry. There is no ground water incident associated with this facility. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|--|---|--------------------------|
| 15) | Property Name Moss & Moore Inc. 1307 S. Main Street Kannapolis, NC 28081 | Property Owner: Carl & Betty Moore 1307 S. Main Street Kannapolis, NC 28081 | Alternative # 2,3 |
| | Facility ID #: 0-019485 Incident# - UST #: MO-1608 | UST Owner: Widenhouse Services Inc. PO Box 10 Concord, NC 28025 | |



This facility currently operates as a Heating & Air conditioning business. It is located on the east side of S. Main Street approximately 350 feet north of Rogers Lake Road. According to the UST Section Registry one tank was closed in 1992. The facility does appear in the ground water incident database by the UST # but there is no ground water incident # associated with this facility. No Monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

| | | | |
|-----|---|--|------------------------|
| 16) | Property Name Vacant Lot S. Main Street (No Address) Kannapolis, NC 28081 | Property Owner: GFS Properties LLC C/O James H. Slaughter PO Box 41027 Greensboro, NC 27404 | Alternative # 3 |
| | Facility ID #: N/A Incident #: N/A | UST Owner: N/A | |



This vacant lot is the former location of a car wash. It is located in the south west quadrant of S. Main Street and Lowrance Avenue. The facility does not appear on the UST Section Registry. There is no evidence of any UST system and there is no ground water incident associated with this facility. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

17) **Property Name**
The Shooters Edge
1227 S. Main Street
Kannapolis, NC 28081

Facility ID #: N/A

Incident #: N/A

Property Owner:
Eddie & Connie Durham
1311 Lowrance Avenue
Kannapolis, NC 28081

UST Owner: N/A

Alternative 3



This facility currently operates as a gun shop. It is located on the east side of S. Main Street approximately 130 feet north of Lowrance Avenue. The facility does not appear on the UST Section Registry. There is no evidence of any UST system and there is no ground water incident associated with this facility. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project**

Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernible during the project reconnaissance may occur. The GeoEnvironmental Section should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

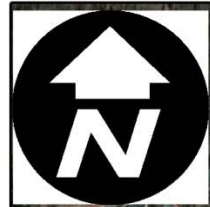
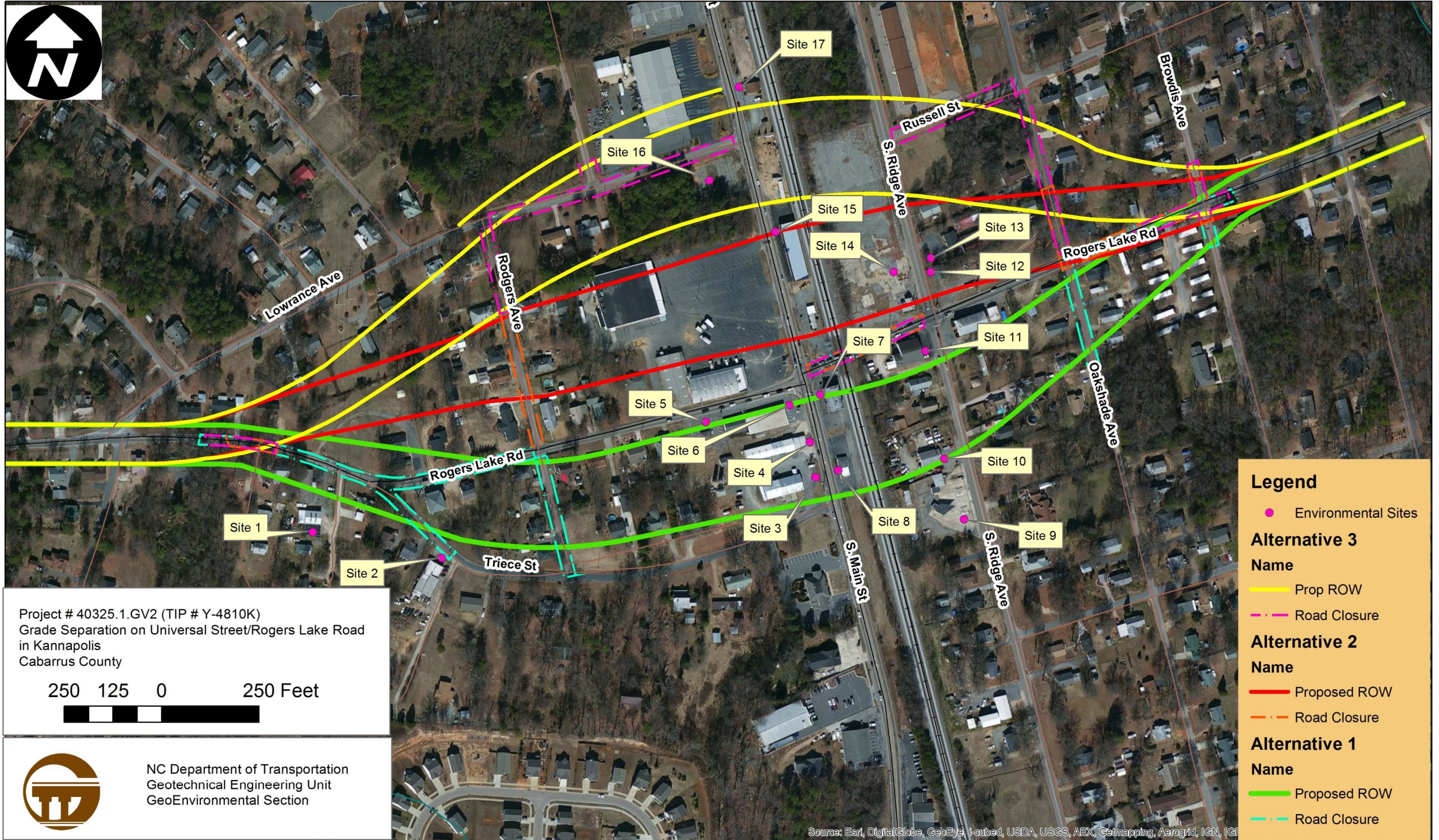
If there are questions regarding the geoenvironmental issues, please contact me, at 919-707-6871.

Craig Haden
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer
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Charles Brown, PE, PLS, State Locations and Surveys Engineer
Tom Koch, PE, Assistant State Structures Engineer
Jay Bennett, PE, State Roadway Design Engineer
Brian Skeens, PE, Area Roadway Construction Engineer
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Kenneth Hill, Division Right of Way Agent
Eric Williams, PE, Geotechnical Regional Manager
Clint Little, LG, Regional Geological Engineer
Dennis Li, Ph. D, LG, Production Support Supervisor
File

Appendix A
Location of USTs, Landfills, & Other Potentially Contaminated Site



Legend

- Environmental Sites

Alternative 3
 Name

- Prop ROW
- - - Road Closure

Alternative 2
 Name

- Proposed ROW
- - - Road Closure

Alternative 1
 Name

- Proposed ROW
- - - Road Closure