




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 13, 2011

MEMORANDUM TO: Brian Yamamoto, PE
Consulting Engineering Group Supervisor
Project Development and Environmental Analysis Branch

FROM: Terry W. Fox, LG 
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

TIP NO: R-2303D
WBS: 34416.1.1
COUNTY: Sampson
DIVISION: 3
DESCRIPTION: NC 24 from SR 1303 (Mitchell Loop Road) to US 421-701/SR 1296 (Sunset Avenue)

SUBJECT: **Geotechnical Report for Planning**

The Geotechnical Engineering Unit has completed the Geotechnical Report for Planning. This report has the following components and is transmitted as:

X Hazardous Materials Report (11) pages

Please contact the project team members listed in the report if you have any questions concerning this project.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
1589 MAIL SERVICE CENTER
RALEIGH NC 27699-1589

TELEPHONE: 919-250-4088
FAX: 919-250-4237

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 project corridor. Geotechnical Engineering Unit personnel and its consultants conducted two field reviews along the project corridor in 2002 and 2009. This 2011 evaluation screened these properties using the current Roadway plans. A search of appropriate environmental agencies' databases was also performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

Fourteen (14) site petroleum UST sites were identified within the project limits.

Hazardous Waste Sites

No Hazardous Waste Sites were identified within the project limits.

Landfills

No apparent landfills were identified within the project limits.

Other GeoEnvironmental Concerns

One (1) other geoenvironmental concern, a former automotive repair facility, was identified within the project limits.

Anticipated Impacts

Fourteen (14) UST facilities and one (1) automotive repair facility were identified within the proposed project corridor. 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 Former Store 5951 Roseboro Hwy Roseboro, NC 28382 NCDOT Parcel 18	Property Owner: Paula L.C. Nethercutt 5951 Roseboro Hwy Roseboro, NC 28382
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This vacant white building was formerly a store & gas station. It is located about 1000 feet southwest from the Pate Road intersection. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

2)	Property Name Private Farm abt 5246 Roseboro Hwy Clinton, NC 28328 NCDOT Parcel 38	Property Owner: Robert & Ruby Pope 244 Concord School Road Clinton, NC 28328
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This former greenhouse and fertilizer business is located on the northwest side of NC 24 (Roseboro Hwy). It is located 450 feet southwest of the Concord Schoolhouse Road intersection. This facility does not appear on the UST Section registry. A drainage line is proposed in the right of way. **This site is anticipated to present low geoenvironmental impacts to the project.**

3)	Property Name Boone's Gas & Grill 5276 Roseboro Hwy Clinton, NC 28328 NCDOT Parcel 41	Property Owner: Ray Simmons 4641 Bass Lake Road Clinton, NC 28328
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The business operates as a propane gas store. It is located 300 feet southwest of the Concord Schoolhouse Road intersection. The layout of the property suggests that a gas station may have operated at this location. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

4)	Property Name Miller Heating & Air Conditioning 25 Concord School Road Clinton, NC 28328 Parcel 42	Property Owner: Miller Heating & Air Conditioning 374 Harmony Church Road Clinton, NC 28328
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This active business is a heating and air conditioning service. It is located in the western quadrant of Concord Schoolhouse Road and the NC 24 intersection. The structures design suggests that a gas station may have operated at this location. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

5)	Property Name Colwell Entertainment 3365 Roseboro Hwy Clinton, NC 28328	Property Owner: James Colwell 300 Vance St Clinton, NC 28328
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Facility ID #: N/A
NCDOT Parcel 87

This club facility previously operated as a convenience store and gas station. It is located in the southeast quadrant of the NC 24 and Dixie Road intersection. The former pump island is approximately 60 feet from the NC 24 centerline. The proposed right of way and drainage will encroach behind the structure. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

6)	Property Name Store – Storage - Apartment 3301 Roseboro Hwy Clinton, NC 28328	Property Owner: Wilbert Brown 2510 Bass Lake Rd Roseboro, NC 28382
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NCDOT Parcel 88

These two facilities may have previously operated as convenience stores and gas stations. The parcel is located 400 feet east of the NC 24 and Dixie Road intersection. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

7)	Property Name NC Real Estate Services 3087 Roseboro Hwy Clinton, NC 28328	Property Owner: Lonnie Glaspie 208 Oakmont Dr Clinton, NC 28328
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NCDOT Parcel 95

This facility currently operates as a real estate office. Locals reported that a store and gas station operated at this location. The parcel is located 0.3 miles east of the NC 24 and Dixie Road intersection. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

8)	Property Name Thrift Store 2550 Roseboro Hwy Clinton, NC 28328	Property Owner: Isoline Griffin 2550 Roseboro Hwy Clinton, NC 28328
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NCDOT Parcel 98

The structure at the western edge of this parcel may have previously operated as a store and gas station. A thrift shop currently operates from this location. The parcel is located 0.33 miles west of the NC 24 and N. Coharie Drive intersection. This facility does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

9)	Property Name GoGas 17 1424 Sunset Ave Clinton, NC 28328	Property Owner: K.E. Austin 3301 Burnt Mill Dr. Wilmington, NC 28403
	Facility ID #: 0-034968 NCDOT Parcel 146	UST Owner: K.E. Austin 3301 Burnt Mill Dr. Wilmington, NC 28403

This facility currently operates as a convenience store and gas station. The parcel is located on the north side of NC 24 (Sunset Avenue) and across from the Overland Road intersection. The tank bed is located approximately 110 feet from the NC 24 median. According to the UST Section registry there are six tanks currently in use. No ground water incidents are associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

10)	Property Name Former gas station 1314 Sunset Ave Clinton, NC 28328	Property Owner: Erastus Balkcum 1322 Sunset Ave Clinton, NC 28328
	Facility ID #: N/A Incident #: 29469 NCDOT Parcel 155	UST Owner:

This vacant building was formerly a convenience store and gas station. Sunset Auto Mart and Balkcum Motor Sales also operated at this location. The parcel is located on the north side of NC 24 (Sunset Avenue) and 0.22 miles east of the Overland Road intersection. The pump islands are located 70 feet from the NC 24 median. This facility does not appear on the UST Section registry. Ground Water Incident # 29469 has been assigned to this location. **This site is anticipated to present low geoenvironmental impacts to the project.**

11)	Property Name Chipped Ice House 1232 Sunset Ave Clinton, NC 28328	Property Owner: Faircloth Family Properties, LLC. PO Box 2145 Clinton, NC 28328
	NCDOT Parcel 149	

This ice making facility is located on the north side of NC 24 (Sunset Avenue) and is 0.15 miles west of the Pierce Street intersection. Bob's Body Shop & Auto Sales was previously located on this parcel and operated within the NCDOT right of way. A drainage line is proposed in the right of way. **This site is anticipated to present low geoenvironmental impacts to the project.**

12)	Property Name D&R Auto Sales 1200 Sunset Ave Clinton, NC 28328 NCDOT Parcel 168	Property Owner: Rebecca Caison 401 Parker Ave Clinton, NC 28328
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This auto sales business is located in the northwest quadrant of NC 24 (Sunset Avenue and the Pierce Street intersection. A convenience store and gas station previously operated at this location. This facility does not appear on the UST Section registry. The parking area has been paved over, covering any evidence of USTs or pump islands. **This site is anticipated to present low geoenvironmental impacts to the project.**

13)	Property Name Sunset Hop In 1109 Sunset Ave Clinton, NC 28328 Facility ID #: 0-008357 Incident #: 18178, 29047, 29135 NCDOT Parcel 185	Property Owner: Sunset Avenue Center, LLC PO Box 1565 Lawrenceville, GA 30046 UST Owner: Sunset Avenue Center, LLC PO Box 1565 Lawrenceville, GA 30046
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This facility currently operates as a convenience store and gas station. The parcel is located on the south side of NC 24 (Sunset Avenue) and approximately 300 feet west of the Royal Lane intersection. The tank bed is located approximately 90 feet from the center of the intersection. According to the UST Section registry there are four tanks currently in use. Three USTs were removed in 1996. Three Groundwater Incidences have been assigned to this property. Incident # 18178 was closed out. Incident # 29047, Speedway 236, was the result of leaking dispensers. Incident # 29135, Sunoco, Inc., was the result of a potentially leaking tank. An LSA was conducted and a NFA was issued in 2007. **This site is anticipated to present low geoenvironmental impacts to the project.**

14)	Property Name Han-Dee-Hugo's #8 914 Sunset Ave Clinton, NC 28328 Facility ID #: 0-035832 NCDOT Parcel 184	Property Owner: Sampson Bladen Oil Co., Inc. PO Box 617 Clinton, NC 28328 UST Owner: Sampson-Bladen Oil Co., Inc. PO Box 160 Elizabethton, NC 28337
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This facility currently operates as a convenience store and gas station. The parcel is located at the northwest quadrant of NC 24 (Sunset Avenue) and US 421. The tank bed is located approximately 85 feet from the NC 24 median. According to the UST Section registry there are four tanks currently in use. There are no ground water incidents associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

15)	Property Name Southern States Cooperative 293 Westover Road Clinton, NC 28328	Property Owner: Southern States Cooperative, Inc. of VA PO Box 26234 Richmond, VA 23260
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NCDOT Parcel 199

This agricultural supply complex is located near the southwest quadrant of NC 24 (Sunset Avenue) and US 421. A gas station may have been located in front of the brick structure as evidenced by the rectangular concrete pad located just off of Westover Road. This facility does not appear on the UST Section registry and no monitoring wells were noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

The Geotechnical Engineering Unit can provide assessments on each of the above properties after identification of the selected alternative and before right of way acquisition. Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernable during the project reconnaissance may occur. The Geotechnical Engineering Unit 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 919-250-4088.

The MicroStation design file showing areas of potential petroleum contaminated soil can be found at:
Project Server\TIPProjects-R\R2303d\Geotech\GeoEnvironmental\R2303C&D_GEO_GEOENV

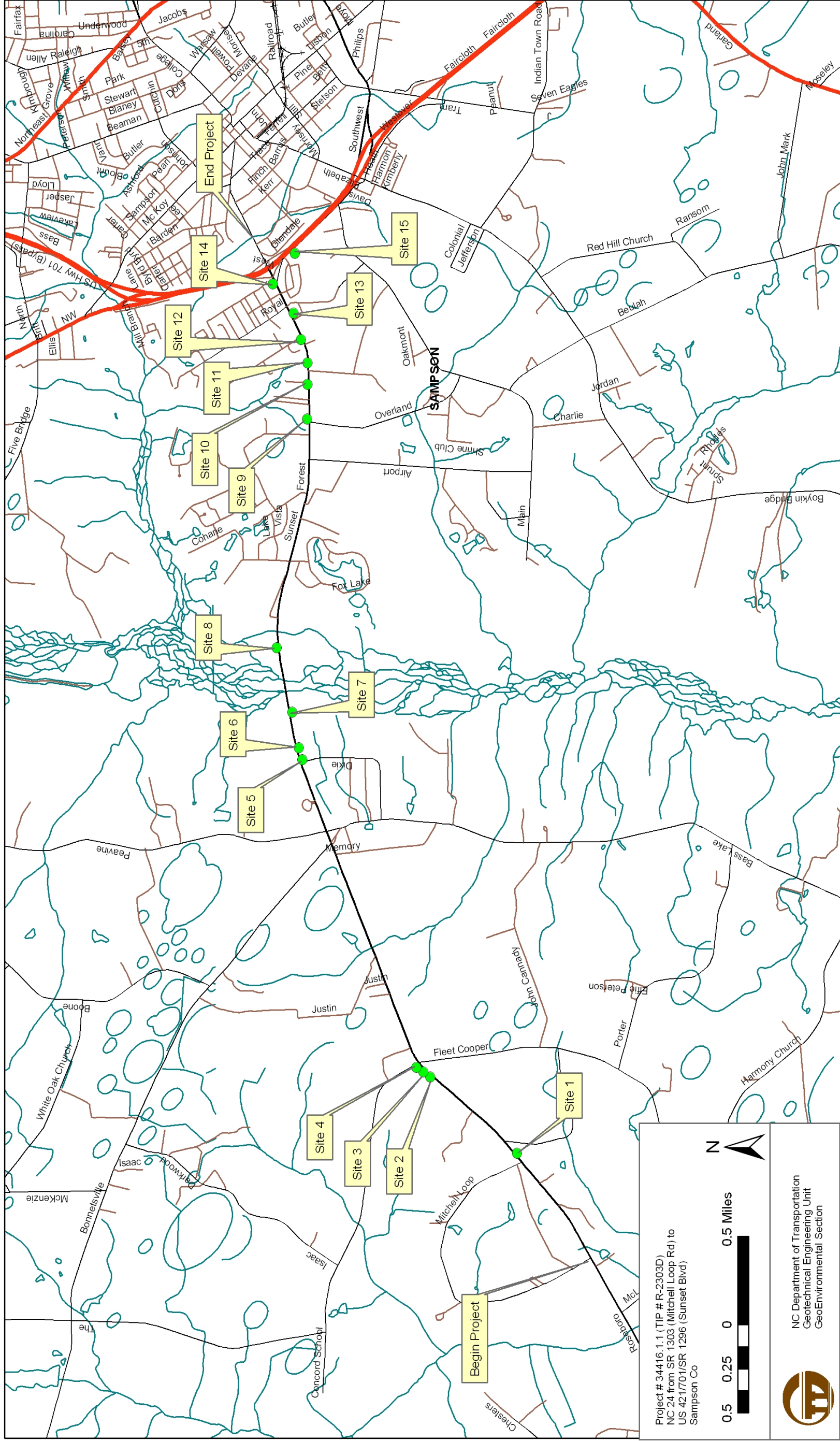


Terry W. Fox, LG
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

cc:

Katrina Washington, PE, Roadway Design
Eric Ray, Division 3 Right of Way
K.C. Batchelor, Jr. PE, Resident Engineer, Clinton
K.J. Kim, PE, Ph.D, Geotechnical Engineering Unit Eastern Regional Office

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



TIP R-2303D

Site Photographs

June 10, 2010



Site 1: Parcel 18. Former Store. View to the northwest.

Site 2: Parcel 38. Former nitrogen and propane sales. View to the northwest.



Site 3: Parcel 41. Boone's Gas & Grill. View to the northwest.



Site 4: Parcel 42. Miller Heating & Air Conditioning. View to the southwest.



Site 5: Parcel 87. Colwell Entertainment. View to the southeast.



Site 6: Parcel 88. Former gas station. View to the southeast.



Site 7: Parcel 95. NC Real Estate Services. View to the north.



Site 8: Parcel 98. Thrift Store. View to the north.



Site 9: Parcel 146. GoGas gas station. View to the north.



Site 10: Parcel 155. Former gas station & convenience store. View to the north.



Site 11: Parcel 149. Chipped Ice House. View to the east.



Site 12: Parcel 168. D&R Auto Sales. View to the northwest.



Site 13: Parcel 185. Sunset Hop In. View to the south.



Site 14: Parcel 184. Han-Dee-Hugo's #8. View to the northeast.



Site 15: Parcel 199. Southern States north side. View to the west.



Site 15: Parcel 199. Southern States south side. View to the west .