



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

June 17, 2014

MEMORANDUM TO: Jennifer Harris, PE
Turnpike Section Head
Project Development & Environmental Analysis

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

TIP NO: R-2721, R-2828, R-2829
WBS: 37673.1.TA2, 35516.1.TA2, 35517.1.TA1
COUNTY: Wake-Johnston
DIVISION: 5
DESCRIPTION: Triangle Expressway Southeast Extension

SUBJECT: **GeoEnvironmental Report for Planning Revision 2**

The GeoEnvironmental Section has completed this Report for Planning. This report replaces the previous Hazardous Materials Reports issued for these TIP projects, dated May 10, 2011, and June 29, 2011. This report has the following components and is transmitted as:

 X Hazardous Materials Report (24) pages

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

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RALEIGH NC 27699-1589

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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 southeast extension of the Triangle Expressway. GeoEnvironmental Section personnel conducted field reconnaissance along the preliminary corridors on May 6, 2011 and June 27, 2011. An additional reconnaissance was performed in May 28, 2014 after the inclusion of four new alternate routes. A search of appropriate environmental agencies' databases was performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

Based on our study, twenty six (26) 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

Five (5) automotive repair facilities and one (1) automotive salvage yard were identified within the project limits.

Anticipated Impacts

Twenty six (26) UST facilities, five (5) automotive repair facilities, and one (1) automotive salvage yard 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 Sunset Mart 9800 Holly Springs Road Holly Springs, NC 27540-4622 Facility ID #: 0-036670	Property Owner: SunHolly, LLC 9800 Holly Springs Road Holly Springs, NC 27540-4622 UST Owner: SunHolly, LLC 9800 Holly Springs Road Holly Springs, NC 27540-4622
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This facility currently operates as a convenience store, Subway restaurant, and BP gas station. It is located in western quadrant of SR 1301 (Sunset Lake Road) and SR 1152 (Holly Springs Road). The dispensers and tank bed are located behind and west of the main structure. According to the UST Section registry there are three (3) tanks currently in use. There are no groundwater incidents associated with this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

2) **Property Name**

West Grading Services
3805 Opportunity Ln
Raleigh, NC 27603

Property Owner:

George & Barbara West.
8408 Fayetteville Rd
Raleigh, NC 27603-5642



This facility operates a grading contractor office and service garage. It is located on the south side of Opportunity Lane and 400 feet west from the US 401 (Fayetteville Road) median. Road building and grading equipment is parked on site. The type of vehicle lifts, if any, could not be determined as the operation was closed on the day of investigation. There is no evidence of USTs and this property does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

3) **Property Name**
All Star Servicenters
3800 Opportunity Ln
Raleigh, NC 27603

Property Owner:
3800 Opportunity Lane, LLC
100 Tweety Ln
Bunn Level, NC 28323-8385



This facility operates an automotive repair facility. It is located on the northwest quadrant of Opportunity Lane and US 401 (Fayetteville Road). Both customer and junk vehicles are parked on site. Four (4) service bays were in use with above ground lifts. There is no evidence of USTs and this property does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

4) **Property Name**

Lee's Collision
2201 US 70 E
Garner, NC 27529

Property Owner:

Eunice R. Lee
2149 US 70 E
Garner, NC 27529-9422



This automotive repair facility is located on the north side of US 70 East and half way between SR 2558 (Guy Road) and SR 2555 (Auburn-Knightdale Road). It has three (3) repair bays and one (1) paint booth. Above ground lifts are being used. The operation is organized and free of any scattered parts or debris. There is no evidence that this business operated as a gas station. 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.**

5) Property Name

Wilco 176
2808 US 70 East
Clayton, NC 27520

Facility ID #: 0-031751

Property Owner:
WilcoHess, LLC
5446 University Parkway
Winston-Salem, NC 27105-1366

UST Owner:
WilcoHess, LLC
5446 University Parkway
Winston-Salem, NC 27105-1366



This facility currently operates as a convenience store and Hess gas station. It is located in southeast quadrant of US 70 East and SR 2558 (Guy Road). The tank bed is located 210 feet from the US 70 median and 80 feet from the Guy Road centerline. According to the UST Section registry there are five (5) tanks currently in use. There are no groundwater incidents associated with this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

6) **Property Name**
LKQ Corp, Self Service Auto Parts
3000 US 70 East
Raleigh, NC 27603

Property Owner: NCDOT Parcel 19
Dianne C. Thompson
2123 Willow Hill Lane
Clayton, NC 27520-5943



This facility operates as a 15 acre self-service automotive salvage yard. It is located on the south side of US 70 East and approximately 0.25 miles east of the SR 2558 (Guy Road) intersection. Vehicle fluids are drained and collected at a central location. There are no hydraulic lifts or evidence of USTs. This property does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

7) **Property Name**

Paul's Cash Grocery & Grill
7301 Poole Road
Raleigh, NC 27610

Property Owner:

Robert L. Lee & Timothy Scarboro
2437 Hodge Rd
Knightdale, NC 27545-9387

Facility ID #: 0-021442

Incident #: 23589 & 26324

UST Owner:

Paul L. Lee
2437 Hodge Rd
Knightdale, NC 27545-9387



This facility currently operates as a convenience store, grill and gas station. It is located in northeastern quadrant of SR 1007 (Poole Road) and SR 2516 (Hodge Road). The tank bed is located approximately 70 feet north from the Poole Road centerline. According to the UST Section registry there are four (4) tanks currently in use. Five (5) tanks were removed in 2003. Contaminated soil was also removed but extensive ground water contamination remains. Ground Water Incident # 23589 was assigned to this facility in 2001. Water supply wells to the east in Dreamland Mobile Home Park show MTBE contamination below regulatory limits. The wells are sampled quarterly and MTBE levels are increasing. The Christine Floyd residential water supply well to the east was found to be contaminated and was abandoned in 2003. A second smaller incident (# 26324) occurred in 2003 due to a tanker spill and was abated. **This site is anticipated to present low geoenvironmental impacts to the project.**

8) Property Name	Property Owner:
Alan's Towing & Recovery 7312 Poole Road Raleigh, NC 27610	Linda Paul, et. al. 1825 Pictou Rd Raleigh, NC 27606-3638



This towing business, and former automotive collision and repair facility is located in the southeastern quadrant of SR 1007 (Poole Road) and SR 2516 (Hodge Road). This business has numerous stored vehicles and mobile homes on the property. This property does not appear on the UST Section registry. **This site is anticipated to present low geoenvironmental impacts to the project.**

9) **Property Name**

ASA Food Mart III
7617 Poole Road
Raleigh, NC 27610

Facility ID #: 0-035072

Incident #: 33235

Property Owner:

ASA Food Mart III, LLC
7617 Poole Road
Raleigh, NC 27610-9736

UST Owner:

Mohammad Shafi Khan
7617 Poole Road
Raleigh, NC 27610-9736



This facility currently operates as a convenience store and Exxon gas station. It is located on the north side of SR 1007 (Poole Road) and just east of the Stony Falls Way intersection. The tank bed is located west of the main building and 165 north of the Poole Road centerline. According to the UST Section registry there are five (5) tanks currently in use. There were numerous monitoring wells on site and groundwater incident # 33235 was assigned to Adam's Grocery, the original owner of this parcel. An LSA was completed in 2007. **This site is anticipated to present low geoenvironmental impacts to the project.**

10) **Property Name**

Best Buy Grocery 2
3608 Benson Road
Garner, NC 27529

Facility ID #: 0-026349

Incident #: 14666

Property Owner:

Ball Rentals, LLC
1401 Aversboro Road, STE 206
Garner, NC 27529

UST Owner:

Turner Farms Self Storage, LLC.
1401 Aversboro Road, STE 206
Garner, NC 27529



This service station and convenience store is located on the northwest quadrant of NC 50 (Benson Road) and Wakefield Lane intersection. According to the UST Section Registry there are two (2) tanks currently in use. One diesel AST is also located on the southern portion of this parcel. Four (4) tanks were removed in 1994. Ground Water Incident 14666 was assigned to this facility (Wakefield Superette) in 1994. The incident was closed out in 2009. **This site is anticipated to present low geoenvironmental impacts to the project.**

11) Property Name

Han-Dee-Hugo's 43
3400 Benson Road
Garner, NC 27529

Facility ID #: 0-032380

Property Owner:

Billy Gordon Britt
PO Box 469
Clinton, NC 28329

UST Owner:

Sampson-Bladen Oil Co., Inc.
932 US 421 N
Clinton, NC 28328



This BP gas station and convenience store is located on the southwest quadrant of NC 50 (Benson Road) and Ten Ten Road intersection. According to the UST Section Registry there are five (5) tanks currently in use. There are no ground water incidents associated with this location. **This site is anticipated to present low geoenvironmental impacts to the project.**

12) **Property Name**

ATT Hub
3420 Benson Road
Garner, NC 27529

Property Owner:

Southern Bell Telephone
1155 Peachtree St NE #115H08
Atlanta, GA 30309



This ATT Hub is located on the east side of NC 50 (Benson Road) and across from the Ten Ten Road intersection. A buried propane tank was noted on adjacent to the buildings and backup generator. **This site is anticipated to present low geoenvironmental impacts to the project.**

13) Property Name	Property Owner:
Tart's Bar	Katie McNally
3316 Benson Road	108 Vista Lane
Garner, NC 27529	Hampstead, NC 28443
Facility ID #: 0-0161	UST Owner:
Incident #: 22	N/A



This bar (formerly Tart's Grocery and gas station) is located on the northwest quadrant of NC 50 (Benson Road) and Ten Ten Road intersection. This business does not appear on the UST Section Registry. The current owner purchased this store in 1969 and believes any fuel sales ceased in the 1940's. There is no evidence of USTs on this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

14) **Property Name**

AC Pro Gun (Saul's Corner)
3340 Benson Road
Garner, NC 27529

Facility ID #: 0-031628
Incident-UST #: RA-4310

Property Owner:

N.D. Sauls, Jr.
10212 Jordon Road
Raleigh, NC 27603

UST Owner:

N.D. Sauls, Jr.
10212 Jordon Road
Raleigh, NC 27603



This part time business (formerly Saul's Corner gas station and store) is located on the west side of NC 50 (Benson Road) and across from the Sauls Park Drive intersection. According to the UST Section Registry three (3) tanks were closed in 1993. Incident UST # RA-4310 was assigned to this facility during the UST removal in 1993. The incident was closed out in 1994. **This site is anticipated to present low geoenvironmental impacts to the project.**

Red Route USTs, Landfills & Other Potentially Contaminated Sites

Site #	Type	Location	UST Facility ID #	Property Name	UST Owner / Property Owner	Anticipated Impact	Anticipated Risk	Comments
15	Heavy Equipment Repair Facility	8200 Fayetteville Road, Raleigh	N/A	Liebherr Equipment Source	Liebherr Mining & Construction Newport News VA	Solvents & Petroleum contaminated soils	Low	Heavy Equipment Repair Facility
16	UST	8112 Fayetteville Road, Raleigh	0-006828	The Food Mart #17	A Craig Lunsford Hurdle Mills, NC	Petroleum contaminated soils	Low	Active gas station & store with 3 current tanks.
17	UST	8012 Fayetteville Road, Raleigh	N/A	Vacant	Powell Housing LLC Raleigh, NC	Petroleum contaminated soils	Low	Possible old service station & store. Former used car lot.
18	UST	8005 Fayetteville Road, Raleigh	0-005454 0-006387	Rite Aid Drug Store	Rogers Oil Co., Raleigh, NC / Kings Grant Commons Retail	Petroleum contaminated soils	Low	Former NC Steel, Inc. One UST closed 2002, 2 USTs closed 1980 GWI 26047 & 26700
19	UST	8005 Ten-Ten Road, Raleigh	0-035579	Ten-Ten BP	The Logsdon Corp Sarasota, FL/ McCullers Crossing LLC	Petroleum contaminated soils	Low	Active gas station & McDonald's with 2 current tanks.
20	UST	7930 Fayetteville Road, Raleigh	0-006035	Walgreens Drug Store	James Buffaloe, Jr Raleigh, NC / 401 & Ten Ten LLC	Petroleum contaminated soils	Low	Former McCullers Community Store. 4 USTs closed in 2009.
21	UST	7900 Fayetteville Road, Raleigh	0-038072	Sheetz, Inc. 507	401 & Ten Ten LLC	Petroleum contaminated soils	Low	Active gas station & store with 4 current tanks.
22	UST	7324 Fayetteville Road, Raleigh	0-006939	T.S. Matthews, Co. Multi-business	T.S. Matthews, Raleigh, NC / Betty Matthews Trust	Petroleum contaminated soils	Low	Former service station & store with 5 tanks closed in 1988.

Red Route USTs, Landfills & Other Potentially Contaminated Sites

Site #	Type	Location	UST Facility ID #	Property Name	UST Owner / Property Owner	Anticipated Impact	Anticipated Risk	Comments
23	UST	6305 Old Stage Road, Raleigh	0-006892	S. Smith Somerville	S. Smith Somerville, Raleigh, NC / Percy Johnson	Petroleum contaminated soils	Low	One UST closed in 1987 and one active for residential use.
24	UST	125 Summerville Park Road, Raleigh	NCD 000776740	Safety-Kleen Systems	Safety-Kleen Corp Plano, TX	Organic-Inorganic Liquids	Low	Hazardous Waste Facility NCD 000-776740
25	UST	6115 Old Stage Road, Raleigh	N/A	Poplar Springs Christian Church	Poplar Springs Christian Church Raleigh, NC	Petroleum contaminated soils	Low	Minor contaminated soil found during UST removal in 1995. GWI 15357
26	UST	1845 Aversboro Road, Garner	0-036970	Lowes Fueling # 185	Lowes Food Stores, Inc. Winston-Salem, NC	Petroleum contaminated soils	Low	Active gas station & store with 3 current tanks.
27	UST	1525 NC 50 S, Garner	0-006237	Ethco C- Store #6	Etheridge Oil Co Kenly, NC	Petroleum contaminated soils	Low	Former gas station & store with 3 tanks closed in 2003. GWI 26366
28	UST	7611 White Oak Road, Garner	N/A	Former Henry King Residence	Robert Richardson Trust Garner, NC	Petroleum contaminated soils	Low	Contaminated soil found during heating oil UST removal. GWI 23564
29	UST	3500 Waterfield Drive, Garner Laurensfield Ct	0-037124	Penske Truck Leasing	Penske Truck Leasing Co. Reading, PA	Petroleum contaminated soils	Low	One current UST
30	UST	1900 US 70 E, Garner	0-035985	Pantry #3479 Smokers Express	The Pantry, Inc. Cary, NC	Petroleum contaminated soils	Low	Active gas station & store with 4 current tanks.
31	UST	1825 US 70 E, Garner	0-005072	Country Cupboard 1	Poole Investment Properties, Raleigh, NC	Petroleum contaminated soils	Low	Active gas station & store with 5 current tanks.

Red Route USTs, Landfills & Other Potentially Contaminated Sites

Site #	Type	Location	UST Facility ID #	Property Name	UST Owner / Property Owner	Anticipated Impact	Anticipated Risk	Comments
32	UST	2425 E. Garner Road, Clayton	0-025637	Mt. Auburn Sheriffs Training Center	Wake Co Field Service Division, Raleigh, NC	Petroleum contaminated soils/solvents	Low	3 tanks closed in 1994 and 1 tank closed in 1993. GWI 12649

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 919-707-6870.

TWF/CEH

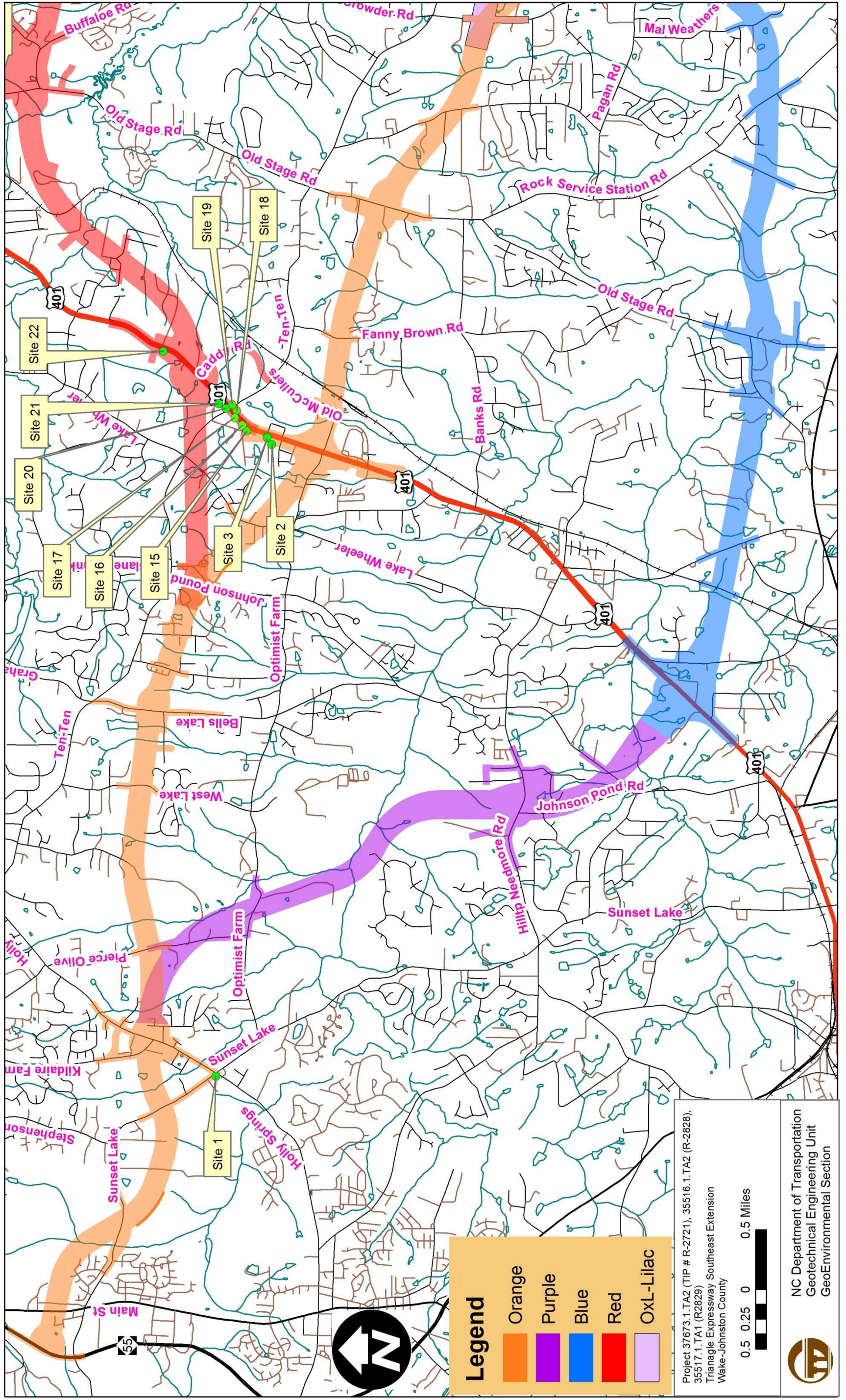


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cc:

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Neal Roberson, LG, Regional Geological Engineer
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File

Appendix A (Map 1 of 3)
 Location of USTs, Landfills, & Other Potentially Contaminated Sites



Project 37673.1.TA2 (TIP # R-2721), 35516.1.TA2 (R-2828),
 35517.1.TA1 (R2829)
 Triangle Expressway Southeast Extension
 Wake-Johnston County



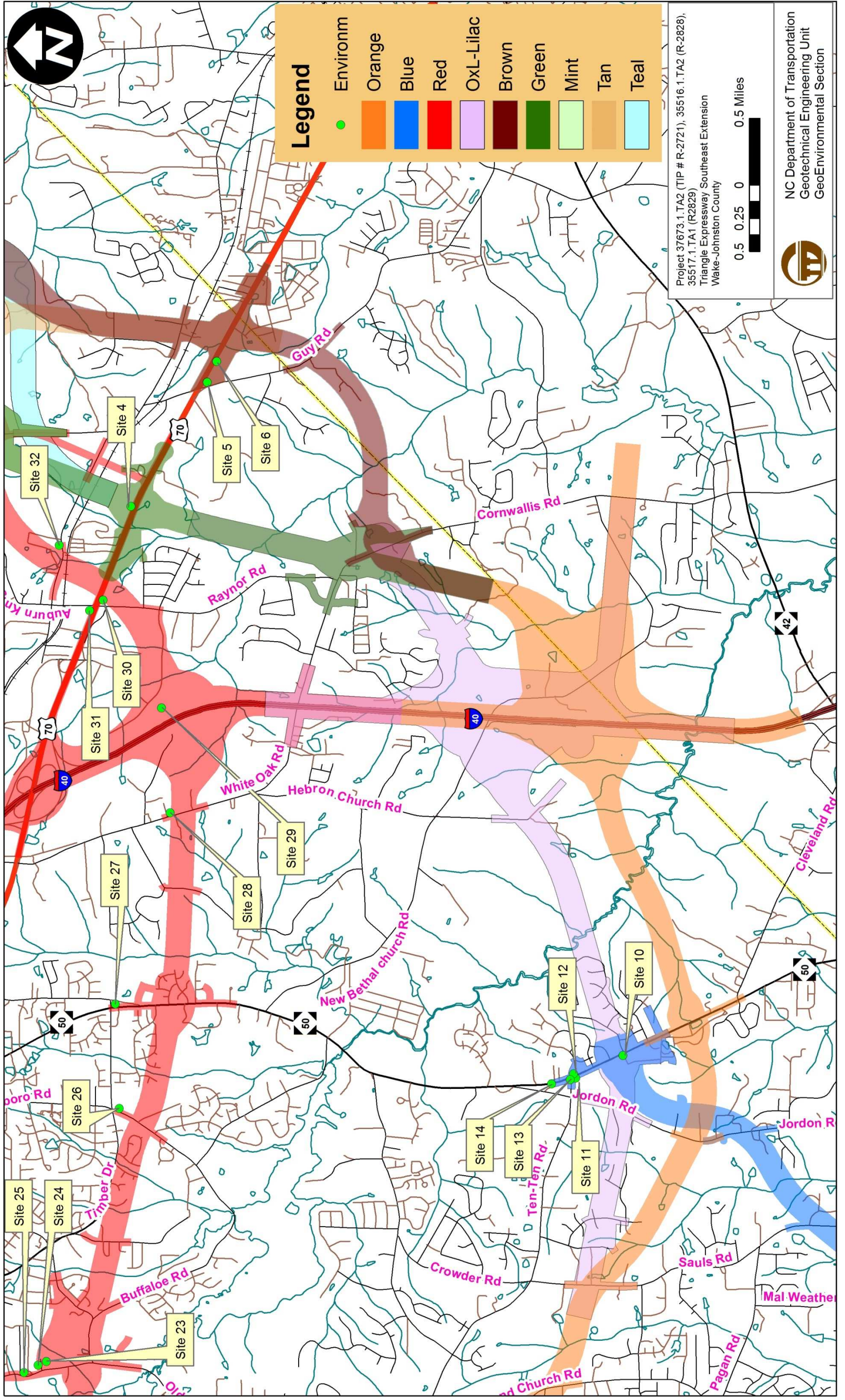
Legend

- Orange
- Purple
- Blue
- Red
- Ox-Lilac

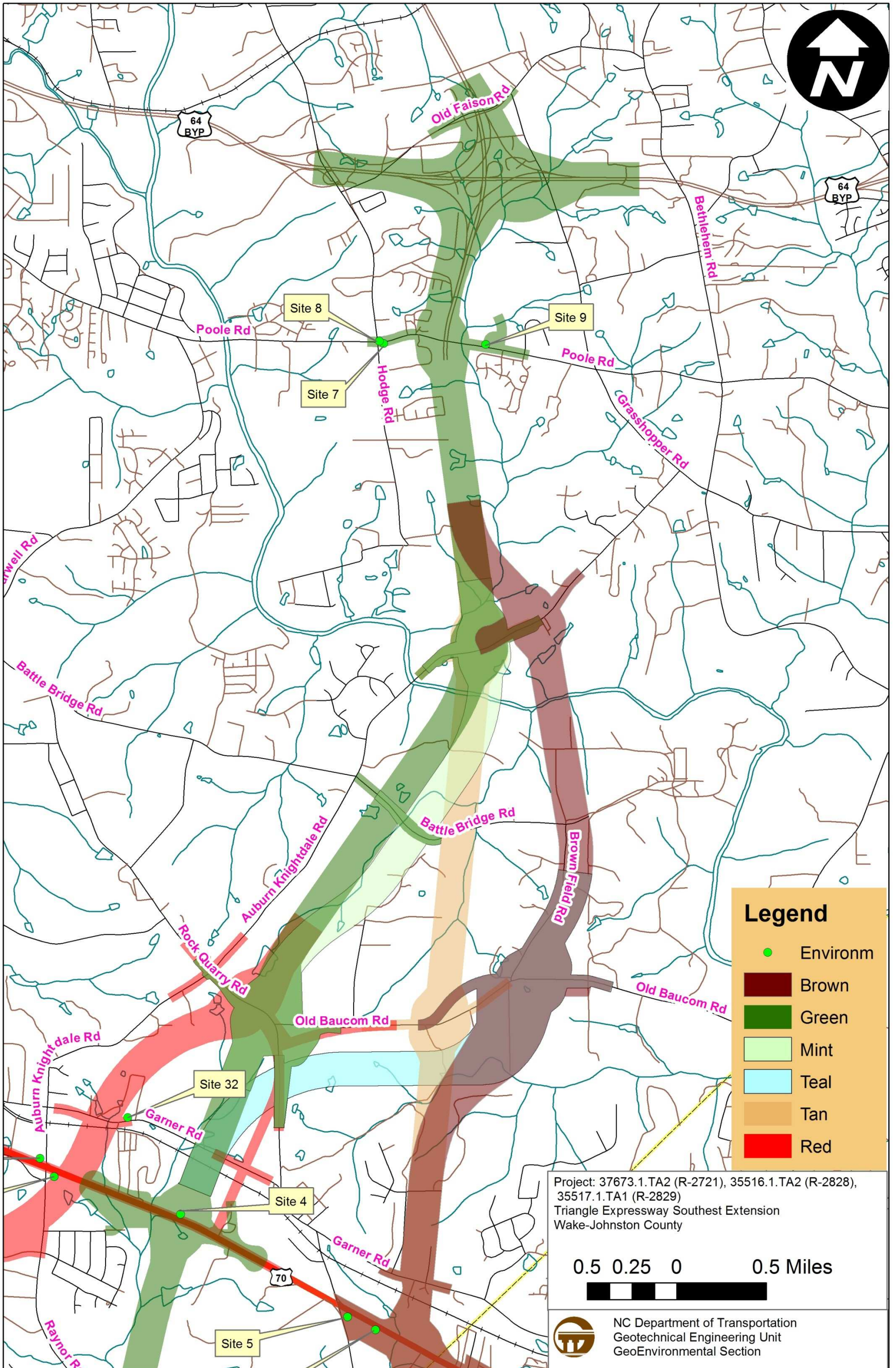
NC Department of Transportation
 Geotechnical Engineering Unit
 GeoEnvironmental Section



Appendix A (Map 2 of 3)
 Location of USTs, Landfills, & Other Potentially Contaminated Sites



Appendix A (Map 3 of 3)
 Location of USTs, Landfills, & Other Potentially Contaminated Sites



Legend

- Environm
- Brown
- Green
- Mint
- Teal
- Tan
- Red

Project: 37673.1.TA2 (R-2721), 35516.1.TA2 (R-2828),
 35517.1.TA1 (R-2829)
 Triangle Expressway Southeast Extension
 Wake-Johnston County



**Potentially Contaminated Sites
Summary Table**

Preliminary Corridors	Type	Number of Sites	Anticipated Impacts	Anticipated Severity	Potentially Contaminated Properties
Orange	UST - Automotive Repair	3	Petroleum contaminated soils	Low	Site 1: Sunset Mart Site 2: West Grading Services Site 3: All Star Servicenters
Green	UST - Automotive Repair	4	Petroleum contaminated soils	Low	Site 4: Lee's Collision Site 7: Paul's Cash Grocery & Grill Site 8: Former automotive collision & repair Site 9: ASA Food Mart III
Brown	UST - Automotive Salvage	2	Petroleum contaminated soils	Low	Site 5: Wilco Hess 176 Site 6: LKQ Corp, Self Service Auto Parts
Tan	None UST - Automotive Salvage	2	Petroleum contaminated soils	Low	Site 5: Wilco Hess 176 Site 6: LKQ Corp, Self Service Auto Parts
Mint	None	0	None		None
Blue	UST - Automotive Salvage	5	Petroleum contaminated soils	Low	Site 10: Best Buy Grocery 2 Site 11: Han-Dee-Hugo's 43 Site 12: ATT Hub Site 13: Tart's Bar Site 14: AC Pro Gun (Saul's Corner)
Lilac	UST - Automotive Salvage	1	Petroleum contaminated soils	Low	Site 10: Best Buy Grocery 2

Potentially Contaminated Sites
Summary Table

Teal	None	0	None		None
Red	None	18	Petroleum contaminated soils / Organic-Inorganic Liquids / Solvents		<p>Site 15: Liebherr Equipment Source Site 16: The Food Mart #17 Site 17: Powell Housing LLC Site 18: Rite Aid Drug Store Site 19: Ten-Ten BP Site 20: Walgreens Drug Store Site 21: Sheetz, Inc. 507 Site 22: T.S. Matthews, Co. Site 23: S. Smith Sommerville Site 24: Safety-Kleen Systems Site 25: Poplar Springs Christian Church Site 26: Lowes Fueling # 185 Site 27: Ethco C- Store #6 Site 28: Robert Richardson Trust Site 29: Penske Truck Leasing Site 30: Pantry #3479 Smokers Express Site 31: Country Cupboard 1 Site 32: Mt. Auburn Sheriffs Training Center</p>
Purple	None	0	None		None