

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY LYNDO TIPPETT GOVERNOR SECRETARY

January 30, 2008

MEMORANDUM TO: William (Bill) T. Goodwin, PE

Project Development – Bridge Unit – Unit Head

Project Development and Environmental Analysis Branch

ATTN: Name

Project Planning Engineer

FROM: Njoroge W. Wainaina, P.E.

> State Geotechnical Engineer Geotechnical Engineering Unit

TIP NO: B-4820 WBS: 38590.1.1 F.A. PROJECT: N/A

COUNTY: Surry/Yadkin

BR 338 over the Yadkin River on SR 1190-1402 **DESCRIPTION:**

SUBJECT: **Geotechnical Pre-Scoping Report**

The Geotechnical Engineering Unit has performed a limited assessment of the above referenced project to assist in developing the scope of work necessary to provide early identification of geoenvironmental and geotechnical issues that could impact the project's planning, design, or construction.

GEOENVIRONMENTAL IMPACT EVALUATION

Purpose

This section presents the results of a geoenvironmental impact 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. Geoenvironmental 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 conducted a field reconnaissance along SR 1190-1402 from Market Street in Elkin to just southeast of Elm Street in Jonesville on January 15, 2008. A search of appropriate environmental agencies' databases was performed to assist in evaluating sites identified during this study.

Findings

Underground Storage Tank (UST) Facilities

Based on our study, seven (7) sites presently, or formerly containing petroleum underground storage tanks (UST's) 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

Two (2) other geoenvironmental concerns, an auto repair shop and the Yadkin River RR, were identified within the project limits.

Anticipated Impacts

Seven (7) possible UST facilities, one auto repair shop, and the rail road yard were identified within the proposed project corridor. We anticipate low monetary and scheduling impacts resulting from these sites. (See Appendices A and B for details)

The Geotechnical Engineering Unit will provide soil and groundwater 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 Terry W. Fox, LG, at 919-250-4088.

Known and Potential GeoEnvironmental Impact Sites

1) Property Name Property Owner:
Tender Touch Home Care Evan Vestal
105 Market Street 227 E. Main Street
Elkin, NC 28621 Elkin, NC 28624

Facility ID #: Unknown UST Owner: Unknown

This facility is currently Tender Touch Home Care. It is located in the southwest quadrant of Market Street and Gwyn Ave.(SR 1190). There is evidence of an old pump island in front of the building. No information could be found in the UST registry and no monitoring well noted on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

2)	Property Name	Property Owner:	
	White Swain Rentals	Kenneth Haney	
	204 Market Street	204 Market Street	
	Elkin, NC 28621	Elkin, NC 28621	
	Facility ID #: 0-026237	UST Owner: Same	

This facility appeared to be vacant on the day of recon. It is listed as White Swain Rentals. It is located in the southeast quadrant of Market Street and Gwyn Ave (SR 1190). According to the UST registry the is one underground heating oil tank in use at this facility. No other evidence of any other UST system was noted. The building does have the appearance of a old service station. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

3)	Property Name	Property Owner:
ŕ	Yadkin River RR	Yadkin River RR

Facility ID #: N/A UST Owner:.N/A

The Yadkin River RR runs under Gwyn Ave (SR 1190). Petroleum and creosote contaminated soil may be encountered along the track area. This site is anticipated to present low geoenvironmental impacts to the project.

4) **Property Name**

Jonesville Automatic Transmission Service

474 Bridge Street Jonesville, NC 28642

Facility ID #: N/A

Property Owner:

Billy Taylor 474 Bridge Street Jonesville, NC 28642

UST Owner:N/A

This facility currently operates as an auto repair shop. It is located on the east side of Bridge Street (SR 1402) approximately 275 feet north of Elm Street. There is no evidence of any UST system. At the time of the field inspection there were several junk cars on the property. No monitoring wells were noted on site. This site is anticipated to present low geoenvironmental impacts to the project.

5) **Property Name**

N&W Auto Sales 462 N. Bridge Street Jonesville, NC 28642

Facility ID #: Unknown

Property Owner:

William & Mark Swaim 324 Johnson Ridge Rd Elkin, NC 28621

UST Owner: Unknown

This former gas station currently operates as a used car lot. It is located on the east side of Bridge Street (SR 1402) approximately 130 feet north of Elm Street. The tanks are still in place and are located by the southwest corner of the building about 75 feet from the centerline of Bridge Street. No information could be found in the UST Registry. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

6) **Property Name**

Auto Glass Service 463 N. Bridge Street Jonesville, NC 28642

Facility ID #:Unknown

Property Owner:

David Lyon 14410 Traphill Road Traphill, NC 28685

UST Owner:Uknown

This former gas station currently operates as an auto glass and tire shop. It is located on the west side of Bridge Street approximately 130 feet north of Elm Street. According to the current owner the tanks were removed prior to his purchase. There are two in-ground hydraulic lifts still in use. No information could be found in the UST registry. No monitoring wells were noted on site **This site is anticipated to present low geoenvironmental impacts to the project.**

7) **Property Name** Property Owner: Hess-Wilco Wilcohess LLC

411 Bridge Street 5446 University Pkwy Jonesville, NC 28642 Winston-Salem, NC 27105

Facility ID #: 0-005625 UST Owner:Same

This facility currently operates as a convenience store & gas station. It is located in the southwest quadrant of Bridge Street and Elm Street. According to the UST registry there are five tanks currently in use. The tank bed is located near the southeast corner of the building approximately 60 from the edge of payment on Bridge Street. No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

8) Property Name
Southern Bells
442 Bridge Street
Jonesville, NC 28642
Facility ID #:Unknown

Property Owner:
James V. Cockerham
5010 Allison Ave
Charlotte, NC 28226

UST Owner: Unknown

This facility currently operates as a restaurant. It is located on the east side of Bridge Street approximately 130 feet south of Elm Street. There are several monitoring wells located on this property. There is no evidence of any UST system and no information could be found in the UST registry. The monitoring wells could be associated with the old gas station (Beroth Oil Co) next door. This site is anticipated to present low geoenvironmental impacts to the project.

9) Property Name Property Owner:
Beroth Oil Co
430 Bridge Street PO Box 4089

Jonesville, NC 28642 Winston Salem, NC 27115

Facility ID #:0-005098 UST Owner:Uknown

Incident #: 12188

This former gas station is currently vacant. It is located on the east side of Bridge street approximately 300 feet south of Elm Street. The property is just outside the project corridor. This facility also operated as Jonesville Amoco (facility ID 0-005099). According to the UST registry the Amoco had five tanks, all closed between 1988 and 1993. Beroth Oil Co had six tanks, all closed between 1994 and 2000. Several monitoring wells were noted on site. This site is anticipated to present low geoenvironmental impacts to the project.

GEOTECHNICAL IMPACT EVALUATION

Techniques/Methodologies

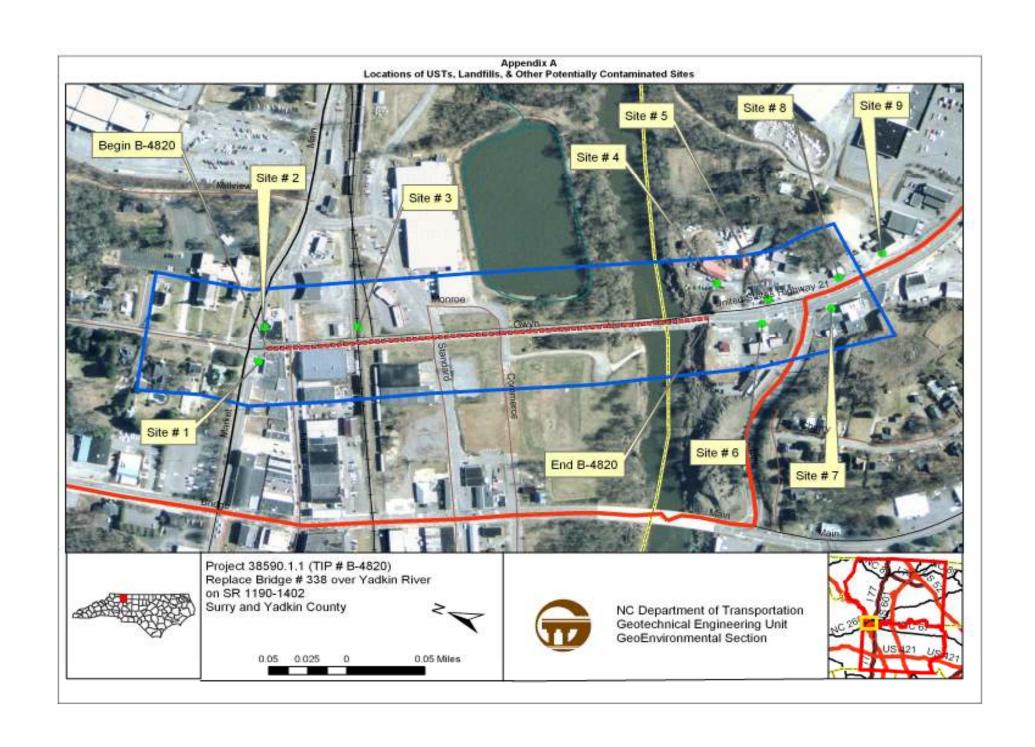
Findings

Anticipated Impacts/Recommendations

If there are questions regarding the geotechnical issues, please contact [Name] at [Phone]

cc:

Art McMillan, PE, State Highway Design Engineer
Jay Bennett, PE, State Roadway Design Engineer
Greg Perfetti, PE, State Bridge Engineer
D.R. Henderson, PE, State Hydraulics Engineer
Charles W. Brown, PE, PLS, State Location & Surveys Engineer
Keith Johnston, PE, PLS, State Photogrammetric Engineer



Site Photographs January 15, 2008



Site 3: Yadkin River RR
Site 4: Jonesville automatic Transmission Service





Site 5: N&W Auto Sales

Site 6: Auto Glass Service





Site 7: Hess/ Wilco

Site 8: Southern Bells



Site 9: Beroth Oil Co (Jonesville Amoco)