




PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

January 12, 2016

MEMORANDUM TO: John Williams, PE
Project Development Engineer
Project Development and Environmental Analysis Branch

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

TIP NO: B-5662
WBS: 45617.1.1
COUNTY: Halifax
DIVISION: 4
DESCRIPTION: Bridge 93 over Conoconnara Swamp on NC 561

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 (4) pages

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



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. GeoEnvironmental Section staff conducted a field reconnaissance within the project limits on January 7, 2016. A search of appropriate environmental agencies' databases was performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

No petroleum 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

No other geoenvironmental concerns were identified within the project limits.

Anticipated Impacts

The GeoEnvironmental Section observed no contaminated properties during the field reconnaissance and regulatory agencies' records search.

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.

CEH/TWF



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

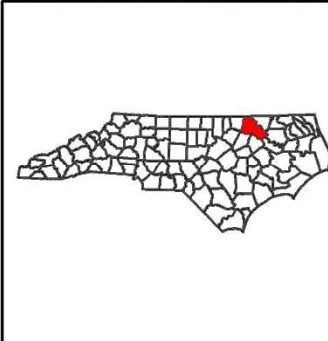
Cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer
Glenn Mumford, PE, State Roadway Design Engineer
David Chang, Ph. D, PE, State Hydraulics Engineer
Tom Koch, PE, State Structures Engineer
Charles Brown, PE, PLS, State Locations and Surveys Engineer
Ronald Wilkins, PE, State Utilities Manager
Corey McLamb, PE, Area Bridge Construction Engineer
Lloyd Johnston, Division 4 Right of Way Agent
K.J. Kim, Ph. D, PE, Geotechnical Regional Manager
Dean Argenbright, LG, Regional Geological Engineer
Steve Grimes, ROW Unit, Negotiations, State Negotiator
row-notify@ncdot.gov
File

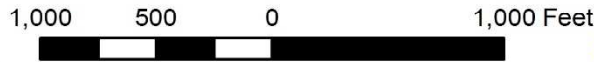
Appendix A
Location of GeoEnvironmental Sites of Concern



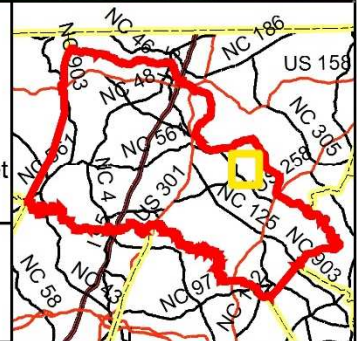
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Project 45617.1.1 (TIP # B-5662)
 Bridge # 93 over Conoconnara Swamp on NC 561
 Halifax County



NC Department of Transportation
 Geotechnical Engineering Unit
 GeoEnvironmental Section



TIP: B-5662

Site Photographs

1/7/16



Bridge 93 on NC 561. View to the north.

Bridge 93 on NC 561. View to the south.



Downstream view of Conoconnara Swamp.

Upstream view of Conoconnara Swamp.