



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 2, 2008

MEMORANDUM TO: Steve DeWitt, PE
Chief Engineer
Turnpike Authority

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

TIP NO: R-2576
WBS: 34470.1.TA1
COUNTY: Currituck
DESCRIPTION: Mid-Currituck Bridge Additional Project Study Area

SUBJECT: **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.

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FAX: 919-250-4237

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

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 the three additional study areas on January 8 and October 14, 2008. Study Area One(NC 12 from Currituck Drive to US 158, Study Area Two(6-8 lane superstreet on US 158 from Wright Memorial Bridge to NC 12) and Study Area Three (Symmetrical widening for a 12' outbound lane on US 158 from the Wright Memorial Bridge to Aydlette Rd). 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, one (1) site may contain petroleum USTs within Study Area One. Two (2) sites are within Study Area Two and ten (10) sites within Study Area Three, but are well outside of the existing right of way.

Hazardous Waste Sites

No Hazardous Waste Sites were identified within the three study areas.

Landfills

No apparent landfills were identified within the three study areas.

Other GeoEnvironmental Concerns

Three (3) other geoenvironmental concerns (all junk yards) were identified within Study Area Three.

Anticipated Impacts

One (1) possible UST facility was identified within Study Area One. We anticipate low monetary and scheduling impacts resulting from this site. The fifteen (15) other sites are within the other two study areas but are believed to be well outside the existing right-of-way and will not impact this project. (See the following table and appendices for details)

The Geotechnical Engineering Unit can provide soil assessments on each of the above properties 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.

Known and Potential Hazardous Material Sites

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- 1) **Property Name**
Han-Dee Hugos 23
5361 Virginia Dare Trail
Kitty Hawk, NC 27949
- Property Owner:**
Cape Oil Corp.
109 43rd Street
Virginia Beach, VA 23451
- Facility ID #: 0-023323**
- UST Owner:**
Cape Oil Corp.
109 43rd Street
Virginia Beach, VA 23451

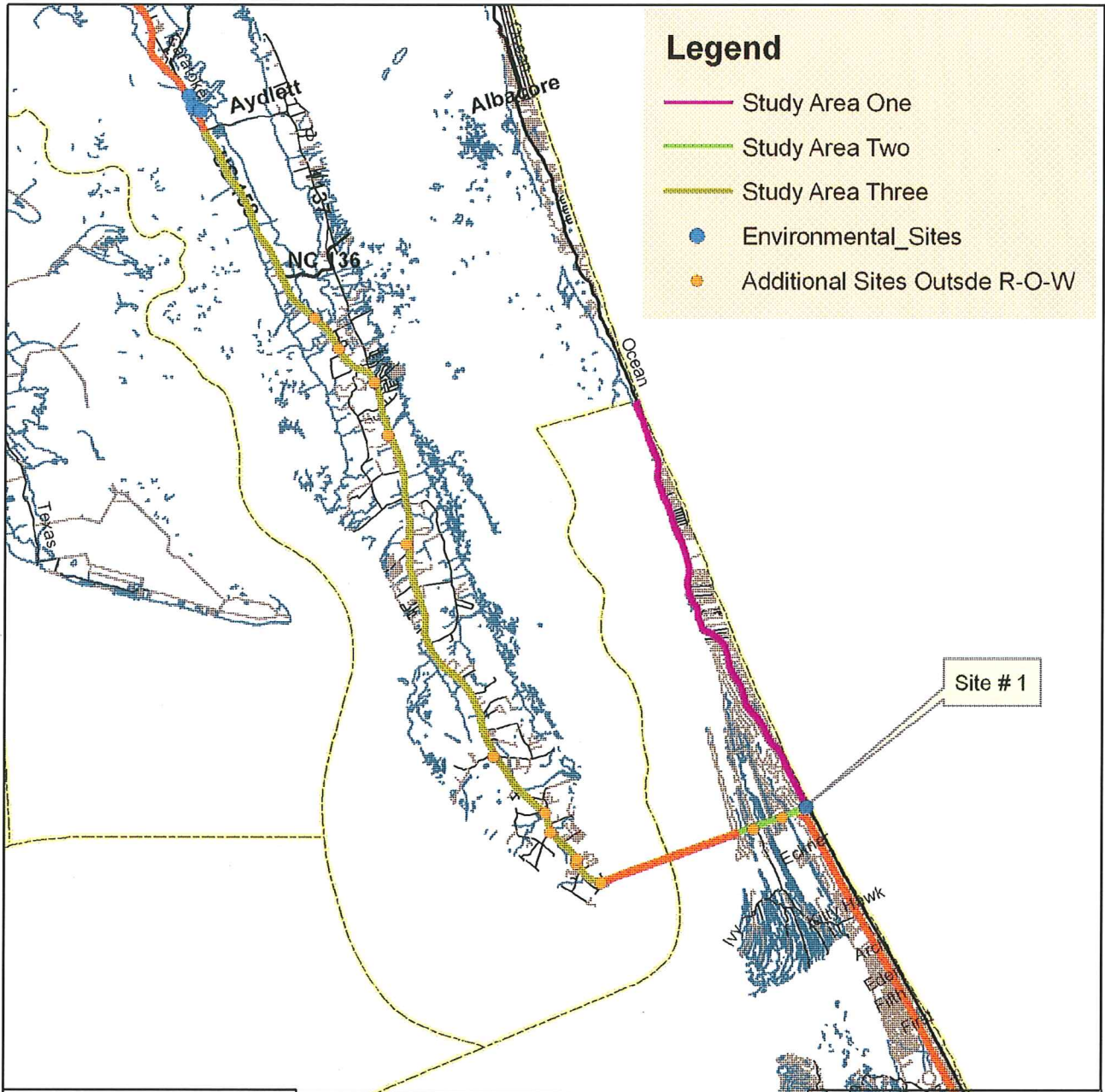
This facility currently operates as a convenience store & gas station. It is located in the northeast quadrant of Croatan Hwy and NC 12 intersection. The tank bed is located approximately 90 feet from the edge of pavement. According to the UST Section registry there are three (3) tanks currently in use. **This site is anticipated to present low geoenvironmental impacts to the project.**

Additional Sites Within Study Area's Two and Three

<u>Address</u>	<u>Property Owner</u>	<u>Facility Type</u>	<u>Risk</u>
5424 N. Croatan Hwy	Eckard Land Holding Co	UST	Low
6100 N. Croatan Hwy	Billy G. Roughton	UST	Low
9142-D Caratoke Hwy	Florez Designers Inc	UST	Low
9026 Caratoke Hwy	Jody E. Midgette	Junk yard	Low
8981 Caratoke Hwy	Sunny's Partnership	UST	Low
8808 Caratoke Hwy	W. Norman Newbern Jr.	UST	Low
8717 Caratoke Hwy	Sarah Elizabeth Forbes	UST	Low
8364 Caratoke Hwy	Jonathan D. St Leger	UST	Low
7278 Caratoke Hwy	Randy Spruill	Junk Yard	Low
6758 Caratoke Hwy	Old Brothers LLC	UST	Low
6520 Caratoke Hwy	Douglas & Michelle Haubold	UST	Low
6511 Caratoke Hwy	Key Properties LLC	UST	Low
110 Forbes Loop Rd	Sampson Bladen Oil Co	UST	Low
6265 Caratoke Hwy	Quintin & Rebecca Adams	UST	Low
6093 Caratoke Hwy	Rufus Jones	Junk Yard	Low

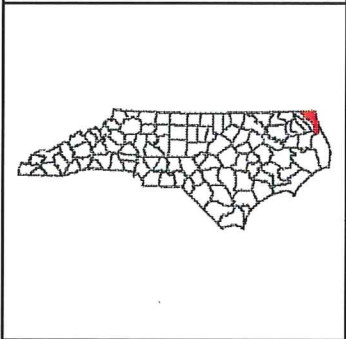
cc:
Dewayne Sykes, PE, Roadway Design
Mike Kinlaw, Division 1 Right of Way
K.J. Kim, PE, Eastern Regional Geotechnical Office
File

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

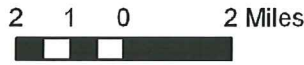


Legend

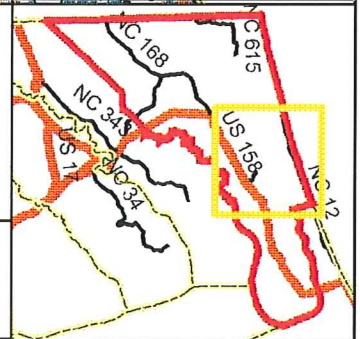
- Study Area One
- Study Area Two
- Study Area Three
- Environmental_Sites
- Additional Sites Outside R-O-W



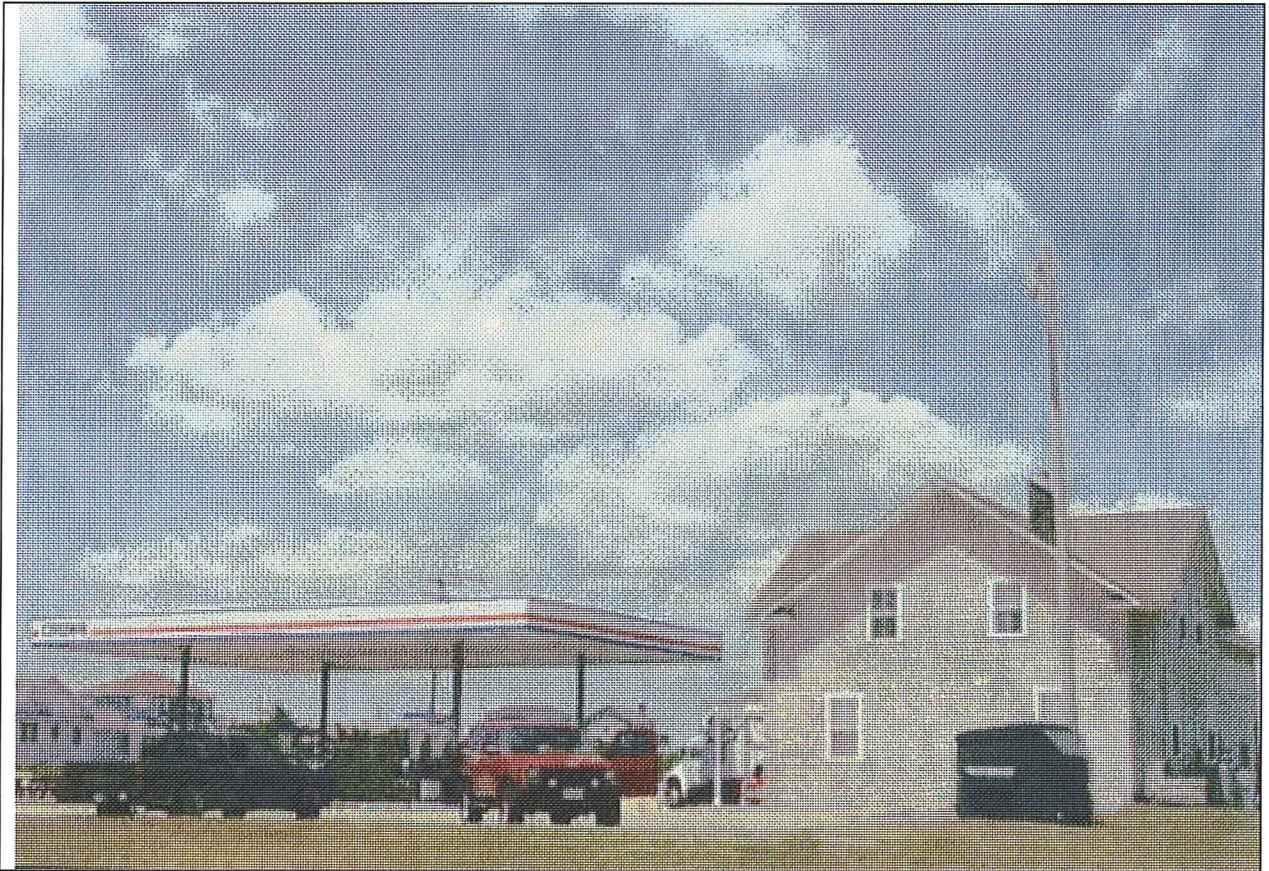
Project 34470.1.TA1 (TIP # R-2576)
 Mid-Currituck Bridge (Additional Study Area)
 Currituck County



NC Department of Transportation
 Geotechnical Engineering Unit
 GeoEnvironmental Section



Appendix B
Site Photograph



Site 1: Han-Dee Hugos 23. View to the northwest.