



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

December 12, 2008

MEMORANDUM TO: Jason T. Orthner, PE  
Engineering Manager-Rail Design & Construction  
NCDOT Rail Division

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

TIP NO: P-34140  
WBS: 39364  
COUNTY: Alamance  
DESCRIPTION: Proposed Graham-Haw River Railroad Siding & Main Line Relocation

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.

**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

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WEBSITE: [WWW.DOH.DOT.STATE.NC.US](http://WWW.DOH.DOT.STATE.NC.US)

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

reconnaissance along the proposed main rail line on December 8, 2008. 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 presently, or formerly containing petroleum USTs was 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**

One (1) possible UST facility was identified within the proposed project corridor. We anticipate low to medium monetary and scheduling impacts resulting from this site. (See the following table and appendices 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 me, at 919-250-4088.

### Known and Potential Hazardous Material Sites

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1)	<b>Property Name</b> Payne Oil Co, Inc. 209 Graham Road Burlington, NC 27215  <b>Facility ID #:</b> 0-023661	<b>Property Owner:</b> Payne Oil Co, Inc. 209 Graham Road Burlington, NC 27215  <b>UST Owner:</b> Payne Oil Co, Inc. 209 Graham Road Burlington, NC 27215
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This facility currently operates as a propane and heating oil distribution business. It is located in the western fork of NC 49 (Graham Road) and the North Carolina Railroad line. The proposed main line relocation will pass through the center of this parcel. The facility currently has eight (8) fuel storage tanks and two (2) large propane storage tanks. Numerous propane and fuel tanks of all sizes are stored throughout this parcel. The only area of concern regarding contamination is at the fuel dispensing valves. A significant amount of staining was noted in the soil. Otherwise, the overall operation was clean and neat in appearance. According to the UST Section registry one UST containing mineral spirits was removed in 1979. The owner states that no other known USTs are located on this property. There are no monitoring wells on site and no Ground Water Incident #'s have been assigned to this facility. **This site is anticipated to present low to moderate geoenvironmental impacts to the project.**

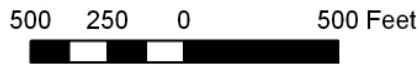
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cc:  
Lloyd Johnston, Division 4 Right of Way  
K.J. Kim, PE, Eastern Regional Geotechnical Engineering Unit Field Office  
File

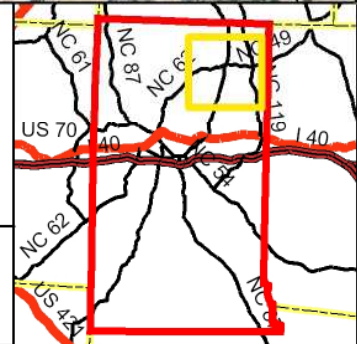
**Appendix A**  
**Locations of USTs, Landfills, & Other Potentially Contaminated Sites**



Project: 39364 (TIP # P-34140)  
 Proposed Graham-Haw River Railroad Siding  
 and Main Line Relocation  
 Alamance County



NC Department of Transportation  
 Geotechnical Engineering Unit  
 GeoEnvironmental Section





Main Propane AST with the NCR line in back ground, left center.

Fuel Storage ASTs on the west half of the property. View to the southwest.



Close up of the fuel dispensing lines and valves. Note oil staining on the gravel.

Various equipment located on property including an older rail siding. View to the west.



Main propane storage tanks at the eastern edge of the property.



Propane tanks on east side of building.