UST Investigation Activities NC DOT Property - Parcel 5B

Charlotte, Mecklenburg County North Carolina

H&H Job No. ROW-504 State Project P-3800 WBS Element #32213 May 15, 2015





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Via 2nd Day Federal Express

May 15, 2015

NC DOT Geotechnical Engineering Unit 1020 Birch Ridge Drive Raleigh, North Carolina 27610

Attention: Mr. Gordon Box, LG

Re: UST Investigation Activities

NC DOT Property – Parcel 5B

Charlotte, Mecklenburg County, NC

State Project P-3800 WBS Element # 32213 H&H Job No. ROW-504

Dear Gordon:

1.0 Introduction and Background Information

Hart & Hickman, PC (H&H) has prepared this letter report documenting underground storage tank (UST) investigation activities recently conducted at NC DOT property Parcel 5B located at 517 W. Trade Street in Charlotte, Mecklenburg County, North Carolina. A site location map is provided as Figure 1. UST investigation activities were conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's February 26, 2015 proposal.

Parcel 5B and several adjacent parcels may be used by NC DOT to facilitate a trade for a separate parcel related to the construction of the Charlotte Multimodal Rail Station (State Project P-3800). A parking lot currently occupies parcel 5B. In January 2015, GEL Engineering of NC, Inc.

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conducted geophysical surveys using electromagnetic (EM) induction technology and ground

penetrating radar (GPR) to identify potential USTs on Parcel 5B and the adjacent parcels. Two

possible USTs were identified on Parcel 5B. The possible UST locations are shown on Figure 1

from GEL's report dated February 25, 2015, which is included in Appendix A. The UST

investigation activities are discussed below.

2.0 UST Investigation Activities

H&H mobilized to the site on March 26, 2015 to conduct UST exploratory excavation activities

in the two possible UST locations on Parcel 5B. H&H contracted EVO Corporation (EVO) of

Winston-Salem, North Carolina to perform the excavation activities. Prior to excavation

activities, a Fire Department permit was obtained from the Charlotte Fire Department. The fire

department permit is included in Appendix B.

During excavation activities in the possible UST location in the central portion of the property,

no UST was encountered; however, bricks, concrete, and metal debris were identified in the

excavation area between 2 ft and 6 ft below ground surface (bgs). The debris likely caused the

GPR data to be interpreted as a possible UST. The excavation area is shown on Figure 2.

During the excavation activities, soils from the sidewalls and base of the excavation area were

field screened for potential impacts using a photoionization detector (PID). Based on field

screening with the PID, no impacted soils were encountered in the excavation. In addition, H&H

did not observe soil staining or petroleum odors. Because there was no evidence of a UST and

no suspected soil impacts, post-excavation soil samples were not collected for laboratory

analysis.

hart hickman

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During excavation activities in the possible UST location in the southern portion of the property,

a heating oil UST was encountered approximately one ft bgs. The UST was approximately

1,000-gallons in size and constructed of steel. No piping or dispensers were identified near the

UST. The UST excavation area is shown on Figure 2.

Prior to removal of the UST, approximately 600 gallons of residual liquids were pumped from

the tank into a vacuum truck by EVO. The certificate of disposal and non-hazardous materials

manifest for removed residual liquids are included in Appendix C. Following removal of the

residual liquids, a lower explosion level (LEL) meter was utilized to monitor for explosive

atmospheres until readings within the tank were less than 10% of the LEL.

Soil was then removed from the top and sides of the UST with an excavator so that the tank

could be removed from the ground. Following removal, the UST was inspected for evidence of

holes, pitting, and corrosion. The tank appeared to be in good condition. The steel UST was

transported off-site by EVO to Triad Metal Recycling in Yadkinville, NC for proper disposal and

recycling. The Tank Disposal Certificate is included in Appendix D.

After the UST was removed, soils from the sidewalls and base of the excavation area were field

screened for potential impacts using a PID. Based on field screening with the PID, no impacted

soils were encountered in the excavation. In addition, H&H did not observe soil staining or

petroleum odors. Because there was no evidence of soil impacts, no post-excavation soil

samples were collected for laboratory analysis in accordance with DENR UST Section

Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases,

March 1, 2007 Version, Change 5, Effective December 1, 2013 for non-regulated heating oil

USTs.

Upon completion of excavation activities, the excavation areas were backfilled with the

excavated soil and imported fill material. The soil was compacted with the bucket of the

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3.0 Conclusions

H&H has completed UST exploratory investigation activities on NC DOT Parcel 5B. No UST was encountered in the excavation area in the central portion of the property. Bricks, concrete, and metal debris were identified in this excavation area. A 1,000-gallon heating oil UST was encountered and removed from the excavation area in the southern portion of the property. Based on field screening and visual observations, no impacted soil was identified in the excavation areas. Because there were no suspected impacts beneath the heating oil UST, no soil samples were collected for laboratory analysis. Upon completion of excavation activities, the excavation areas were backfilled with the excavated soil and imported fill material. If impacted soil is encountered in these areas during future site work, it should be properly managed and disposed at a permitted facility.

If you have any questions or need any additional information, please do not hesitate to contact us at (704) 586-0007.

Very truly yours,

Hart & Hickman, PC

David Graham

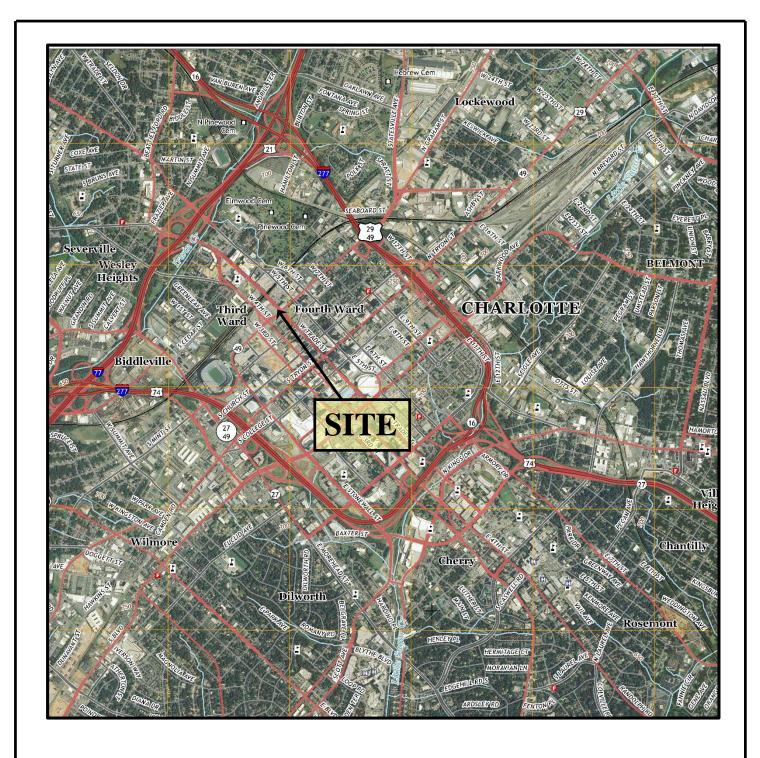
Senior Project Geologist

Matt Bramblett, PE

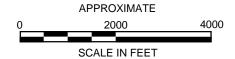
Principal

Attachments









U.S.G.S. QUADRANGLE MAP

CHARLOTTE, NC 2013

QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC) TITLE SITE LOCATION MAP

PROJECT **NCDOT PARCEL 5B** 517 W. TRADE STREET CHARLOTTE, MECKLENBURG COUNTY, NC



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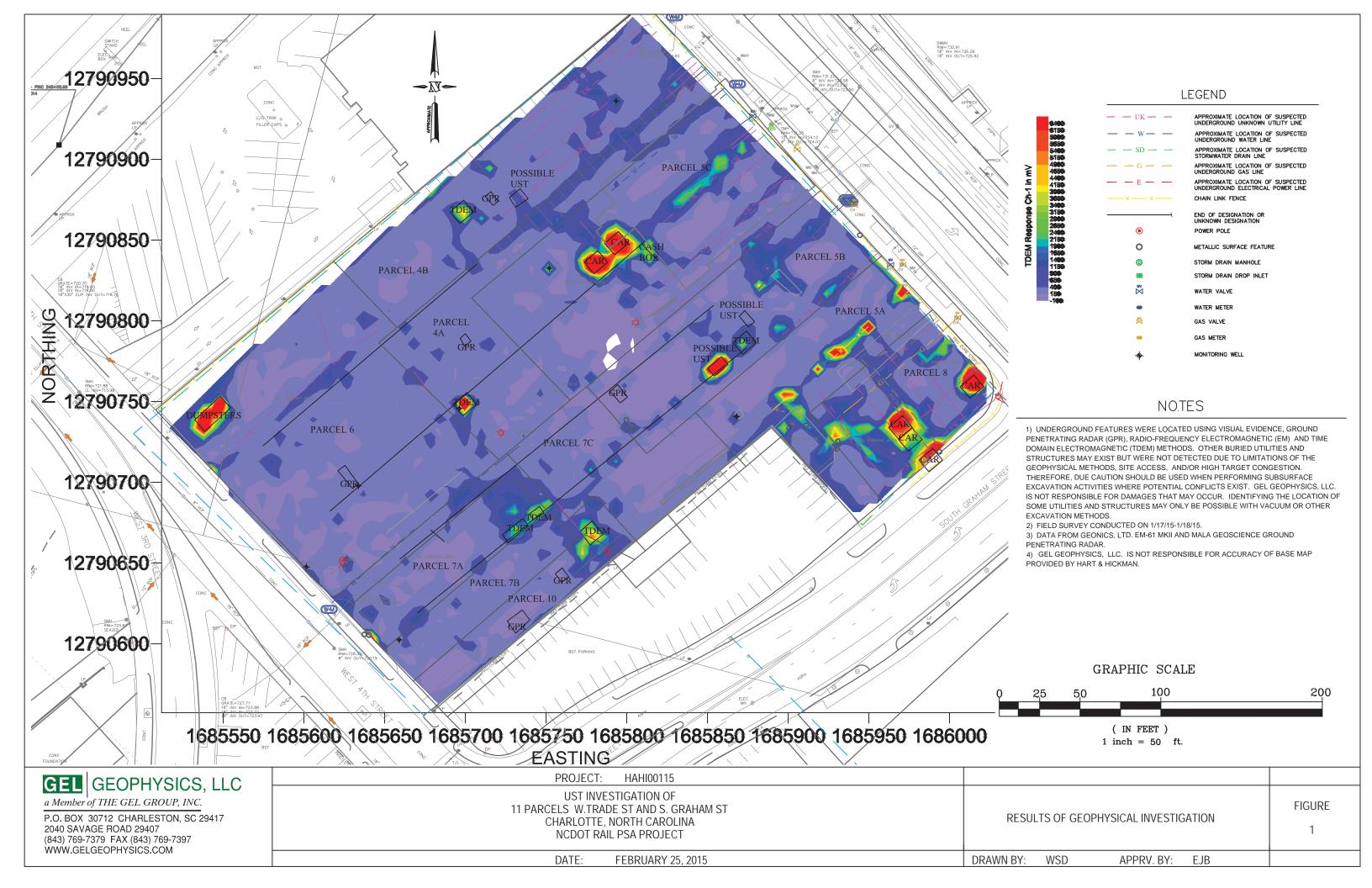
DATE: 4/1/15 **REVISION NO:** 0

JOB NO: **ROW-504** 1 FIGURE:

Appendix A

Figure 1 from GEL's Geophysical Survey Report dated February 25, 2015





Appendix B

Fire Permit



CHARLOTTE FIRE DEPARTMENT

FIRE PREVENTION BUREAU

Tank Removal and Safeguarding Permit Application

Applicant					
This is the company name and mailing address of the tank removal company. Name: Hart & Hickman PC Contacts: David Grohem on Joke Whitele					
Contacts. David Granath of Jake Whittle					
Address: 2923 S. Tryon Street City/State: Charlotte Zip Code: 28203					
Phone Number: (704) 586-0007 Cell Number: (704) 649-5999					
Location and Type of Project					
This is the facility name and address of the tank removal project. If vacant property, indicate "Vacant" for facility name. Facility Name: Vacant Parking Lot(s) Address: 517-537 W. Trade Street Charlottte NC					
Type of Project: YES Tank Removal Tank Abandonment Both A/G: B/G: _up to 3 USTs					
Tank Information					
If more than 4 tanks, complete a separate sheet. TANK SIZES AND CONTENTS UNKNOWN AT THIS TIME Tank 1) Products. I DIKNOWN (TERROR)					
Tank 1) Product: UNKNOWN / TBD Size: UNK Tank 2) Product: UNK Size: UNK					
Tank 3) Product: UNK Size: UNK Tank 4) Product: Size:					
Tanks Transported To: Tank removal will be performed by H&H sub. USTs and contents will be disposed properly.					
Responsible Applicant					
Name:Hart & Hickman, PC- David Graham Title: _As NC DOT Agent Signature: Date:3/17/2015 To certify that the information provided and contained herein is true and accurate to the best of my knowledge. The issuance of a permit shall not be deemed as approval to violate any provisions of the North Carolina State Fire Code. The code official has the right to inspect the site to ensure compliance with provisions of the fire code, and to issue a Stop Work Order for unsafe practices.					
NOTE! A site plan of the job site shall be submitted with this application					
Return the completed and signed application, site plan, and check to: Charlotte Fire Department – Fire Prevention Bureau 500 Dalton Avenue Charlotte, North Carolina 28206 Phone: 704-336-2101 Facsimile: 704-336-5190					
Check Enclosed Payable to "The City of Charlotte"					
If you wish to pay by credit card, contact the Fire Prevention Bureau Office to provide necessary information.					
CFD Office Use Only					
Permit Code: 16 Fee: \$ Permit No					
Check No Issue Date: / /					
ssued by Inspector: Emp. #:					
nformation Collected By:					
ntry Date: / / Entered By:					

Appendix C Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 600 gallons of non-hazardous contaminated water received on 03/26/2015 from:

Generator:

NC Department of Transportation

Originating at:

Parcel 5B - 517 W. Trade St.

Charlotte, NC

EC Waste ID #:

031539

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett

CEO

Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107 www.evocorp.net NON-HAZARDOUS MATERIALS MANIFEST

Load #				Manifest No. 74122	
GENERATOR INFORMATION					
Generator:	NC Dept of Transportation Phone: 919-707-685				
Site Address:	Parcel 5B-517 V	U Trade St	i none,	919-101-0009	
City/State:	Charlotte, NC 2	e riane st.	Contact		
-	Unamotte, NC 21	8202	Contact	Gordon Box	
	MATERIAL DESCR	RIPTION/QUAI	NTITY / WEIGH	T	
Gross Weight (lbs):		Material:			
			Water Petroleum		
Net Weight (lbs):		Contaminant:	Petr	oleum	
. vot vvolgile (lbb).					
Quantity	(1)	Tons Drums	Pails Sacs	Yards Other:	
•	600 gallon's			raids Other.	
TRANSPORTER INFORMATION					
	Evo Corporatio				
Transporter:	DVO COLPOTACIO	<u> </u>	Phone:	336-725-5844	
Truck #: <u>40</u> プ			Contact:	Tony Disher	
As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.					
Driver Signature: Levil Police: 3-2(-15					
FACILITY INFORMATION					
EVO CORPORATION 1703 Vargrave Street Winston-Salem, NC 27107		_	ivo Project #: Phone: (336) 72	031539 5-5844	
	C	Contact: Tony Disher			
I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.					
Facility Signature:	And Lul		Date: <u>()</u> 3 - 3	26-2015	
White/Facility	Canary/Invoice	,	oldoprod/C		
Evo Corporation, 2008	Ouridity/IIIVOICE	G	oldenrod/Genera	tor Pink/Carrier	

Appendix D

Tank Disposal Certificate



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner:

NO Department of Transportation

ransportation Orphan Tank

Site Address:

Parcel 5B - 517 W. Trade St.

Charlotte, NC

Description of Tanks:

Tank Number

Size of Tank

Contents

1

1,000 Gallons

#2 Fuel Oil

Transporter:

Evo Corporation

EC Project #:

031539

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to Triad Metal Recycling in Yadkinville, NC for proper disposal and recycling.

Signature

Thomas W. Hammett

CEO

Evo Corporation

Appendix E

Photographs



Photograph 1: View of excavation area in the central portion of the property.



Photograph 2: View of heating oil tank removed from the southern portion of the property.