UST Investigation Activities NC DOT Property - Parcel 4B

Charlotte, Mecklenburg County North Carolina

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







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 4B

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 Parcel 4B located at 537 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 4B and several other 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 4B. In January 2015, GEL Engineering of NC, Inc. conducted geophysical surveys using electromagnetic (EM) induction technology and

Mr. Gordon Box, LG

May 15, 2015

Page 2

ground penetrating radar (GPR) to identify potential USTs on these parcels. One possible UST

was identified on Parcel 4B. The possible UST location is 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

on Parcel 4B. H&H contracted EVO Corporation (EVO) of Winston-Salem, North Carolina to

perform the excavation activities. Prior to UST removal activities, a fire department permit was

obtained from the Charlotte Fire Department. The fire department permit is included in

Appendix B.

During excavation activities, no UST was encountered; however, bricks and metal piping debris

were identified in the excavation area approximately one ft to six ft below ground surface (bgs).

The bricks and metal piping likely caused the GPR data to be misinterpreted as a possible UST.

The excavation area is shown on Figure 2. Photographs of the excavation and debris are

included in Appendix C.

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

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

with the PID, no impacted soils were suspected 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.

The excavation was backfilled with the excavated soil and brick debris, compacted with the

bucket of the backhoe, and capped with gravel. No geotechnical testing was conducted during

backfilling of the excavation.

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

3.0 Conclusions

H&H has completed UST exploratory investigation activities on NC DOT Parcel 4B and no UST was encountered. Bricks and metal piping debris were identified in the possible UST location. Upon completion of excavation activities, the area was backfilled with the excavated soil. The bricks and piping debris were left in place. Based on field screening and visual observations, no impacted soil was identified in the excavation area. If impacted soil is encountered in this area 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

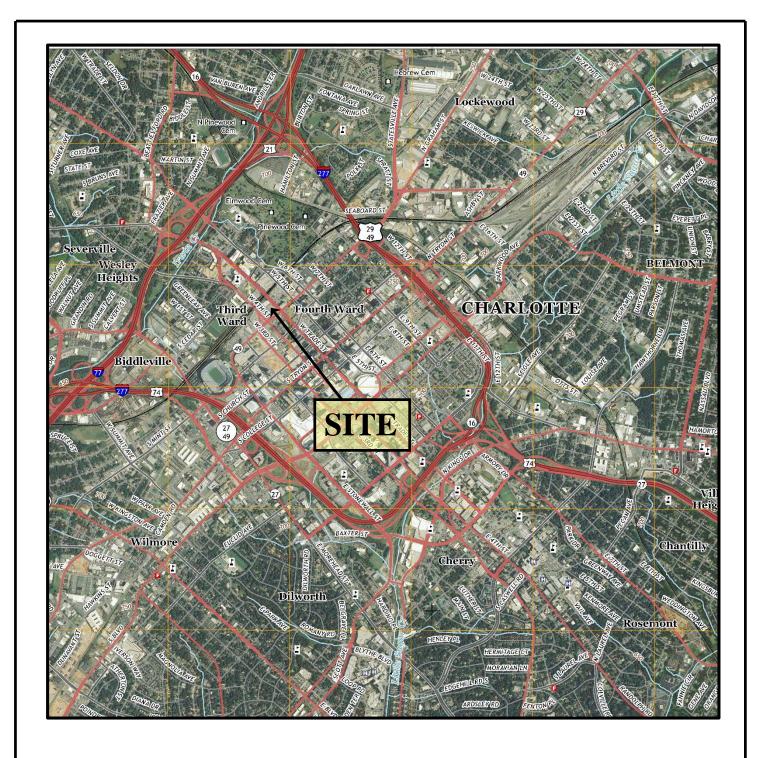
David Graham

Senior Project Geologist

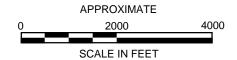
Matt Bramblett, PE Principal

Attachments









U.S.G.S. QUADRANGLE MAP

CHARLOTTE, NC 2013

QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC)

| IIILE | |
|-------------------|---|
| SITE LOCATION MAI | Ρ |

PROJECT NC DOT PARCEL 4B 537 W. TRADE STREET CHARLOTTE, MECKLENBURG COUNTY, NC



SMARTER ENVIRONMENTAL SOLUTIONS

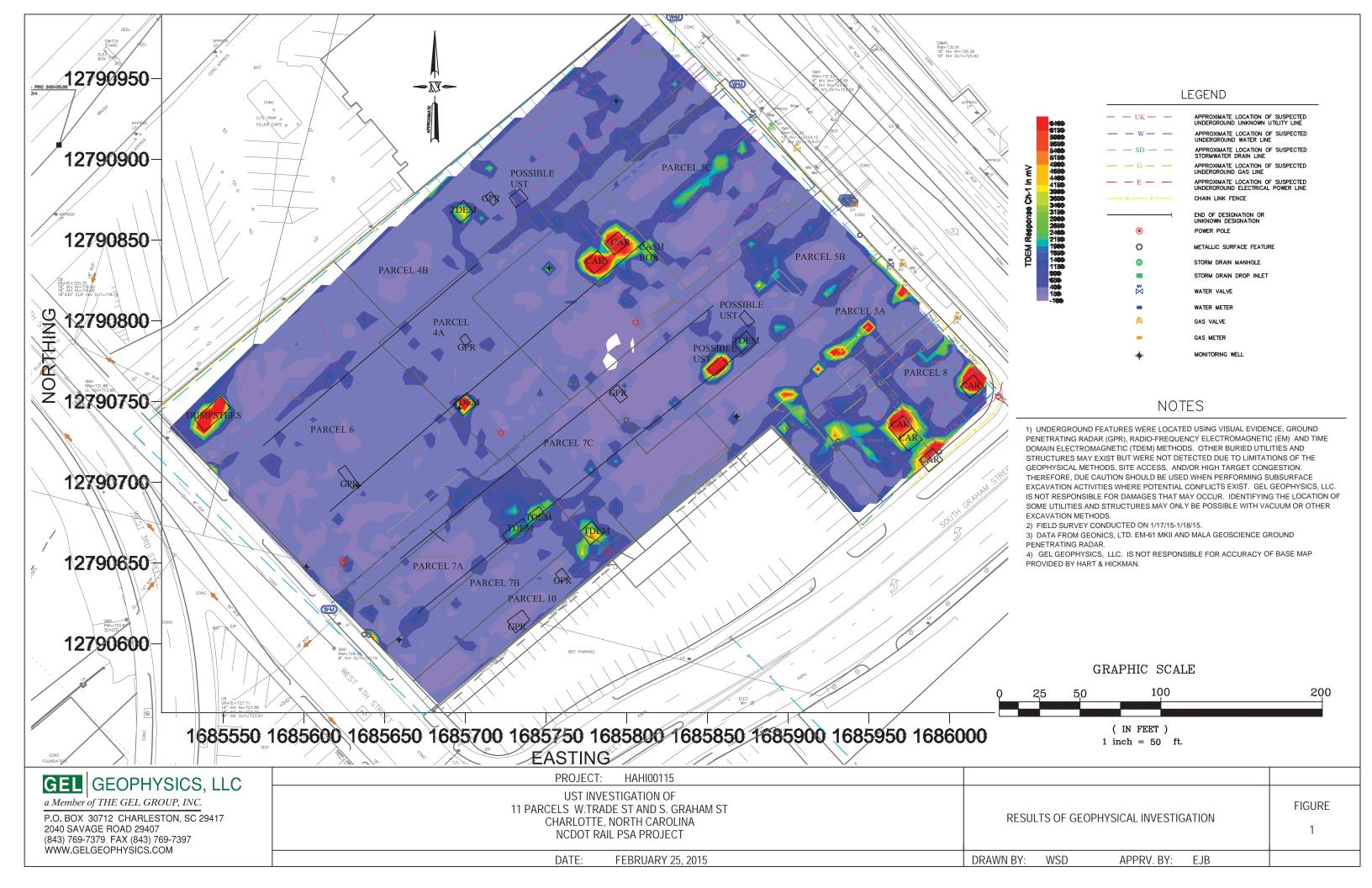
DATE: 4/1/15 **REVISION NO:** 0

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

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 Photographs





Photograph 1: View of brick and metal piping debris in excavation.



Photograph 2: View of brick debris in excavation.