

August 15, 2013

Mr. Gordon Box, L.G. GeoEnvironmental Project Manager Geotechnical Engineering Unit North Carolina Department of Transportation 1589 Mail Service Center Raleigh, NC 27699-1589

Subject: Excavation and UST Removal Activities

Parcel #015, Former Christian O. Simson Property

State Project R-4047 WBS Element: 34599.1.1

County: Haywood

Description: 28 Corley Rd AMEC Project: 566774047

Dear Mr. Box:

AMEC Environment & Infrastructure, Inc. of North Carolina (AMEC) is pleased to provide a summary of UST removal activities performed at the above-referenced Site on July 19, 2013. AMEC received a request for proposal from NCDOT dated June 5, 2013 for a UST Closure at the Site. AMEC submitted our Technical and Cost Proposal on June 26, 2013. This work was conducted in accordance with your notice to proceed dated July 9, 2013. One onsite heating oil UST was closed by removal from the Site and the excavation was backfilled to ground surface.

SITE LOCATION

Facility I.D.: N/A UST Incident Number: N/A

Site Name: R-4047 - Parcel #015 Former Christian O. Simson Property

Site Street Address: 28 Corley Rd

City/Town: Lake Junaluska Zip Code: 28785 County: Haywood

Description of Geographical Point: N/A

Location Method (GPS, Topographical Map, Other): Google Maps

Latitude: 35° 52' 61" N Longitude: 82° 95' 87" W

Mr. Gordon Box Parcel #15, Lake Junaluska, Haywood County, NC August 15, 2013

CONTACTS

Responsible Party: NCDOT, Geotechnical Unit

Contact Person: Gordon Box, L.G.

Address: 1589 Mail Service Center, Phone: (919)707-6859

Raleigh, NC,27699

Property Owner: Former Christian O. Simson Property

Address: 28 Corley Rd Phone: Not available

Lake Junaluska, NC,28785

Contact Person: Simsons

Primary Consultant: AMEC

Address: 2801 Yorkmont Road Phone: (704) 357-5516

Suite 100

Charlotte, NC 28208

Soil Removal Contractor: A&D Environmental Services

Address: 1915 Brentwood St Phone: (336) 882-8000

High Point, NC

Analytical Laboratory: Pace Analytical

Address: 9800 Kincey Ave, Ste 100 Phone: (704) 875-9092

Huntersville, NC 28078

State Certificate No.: 12

PHYSICAL SETTING AND BACKGROUND INFORMATION

The Christian O. Simson Parcel is located on the southeastern corner of the intersection of NC Hwy 209 (Crabtree Road) and Corley Road in Lake Junaluska, Haywood County, North Carolina, as shown in Figure 1. The properties surrounding Parcel #015 are commercial and residential.

The Christian O. Simson Property is located within the Biotite Gneiss group of the Blue Ridge Belt Physiographic Province of western North Carolina. The Biotite Gneiss group is migmatic, interlayered and gradational with biotite garnet gneiss and amphibolite.

One two-story building with a basement level occupies the Site. The proposed road widening will traverse the length of Parcel #015. Figure 2 presents the Site Location Map. A photo log for the Site is included in the Attachments. During reconnaissance, representatives from AMEC as well as the subcontractor, A&D Environmental, identified one UST with a deduced capacity of 450 gallons and an estimated 20 gallons of product. The UST was located approximately 5 feet from the front of the house on the west side and was expected to be one foot below ground surface (bgs).

UST REMOVAL AND SOIL SAMPLING ACTIVITIES

Prior to excavation activities, AMEC requested and received a utility walk-through from North Carolina One Call. The local Fire Marshal and NCDENR were also notified prior to field activities.

AMEC retained A&D Environmental Services (A&D) to perform evacuation of residual fluids from the UST, to excavate and properly dispose the UST, and to potentially excavate and properly dispose of potentially affected soils from contaminant release. AMEC provided oversight and direction during excavation and removal activities, which were performed on the 19th of July 2013.

UST closure commenced with fluids removal from the UST using a vacuum truck. The UST was then pressure washed to render the UST inert. A total of 20 gallons of a mixture of water- and heating oil were evacuated from the UST. The lower explosive limit (LEL) within the tank was then checked with a Photo Ionization Detector (PID) to verify safe conditions for removal. UST-1 appeared rusted and pitted, but showed no areas of complete deterioration. Once excavated, UST-1 was measured to have a diameter of 4 feet and a length of 6 feet with a capacity of 600 gallons. The disposal certificates are included in the attachments following this letter.

During the removal of heating oil UST-1 no evidence of total petroleum hydrocarbon release was observed. Table 1 presents the field monitoring results. Soil sampling was; therefore, not necessary for this unregulated tank. Native soil was encountered during sampling activities, which predominantly consisted of orange, clayey silt. An excavation log is included in the attachments following this letter.

A&D then backfilled the exposed tank bed from UST-1

CONCLUSIONS

The following conclusions are derived from Site conditions and sample screening results from field activities conducted in July 2013.

- Heating oil UST-1 was closed by removal on July 19, 2013 from 28 Corley Road in Lake Junaluska, Haywood County.
- A total of 20 gallons of a mixture of water and oil were evacuated from the UST.
- Photo Ionization Detector readings suggested that the soils below and next to the storage tank did not have any impact from volatile organic compounds from the UST.
- The 600 gallon UST was safely removed from the Site and disposed of properly. The excavation area was backfilled to ground surface.

Mr. Gordon Box Parcel #15, Lake Junaluska, Haywood County, NC August 15, 2013

Should you have any questions or need further information please contact us as (704) 357-8600.

Best Regards,

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AMEC Environment & Infrastructure, Inc. of North Carolina

Troy L. Holzschuh

Engineer Science Professional

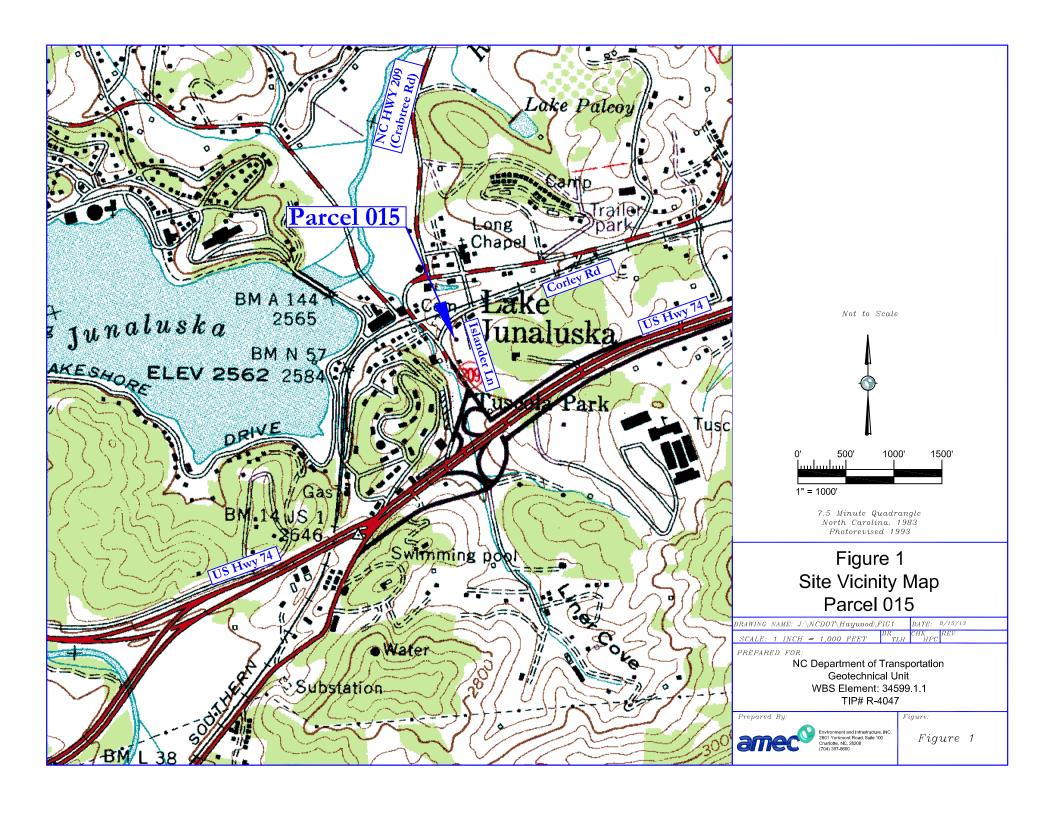
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NCDOT Program Manager

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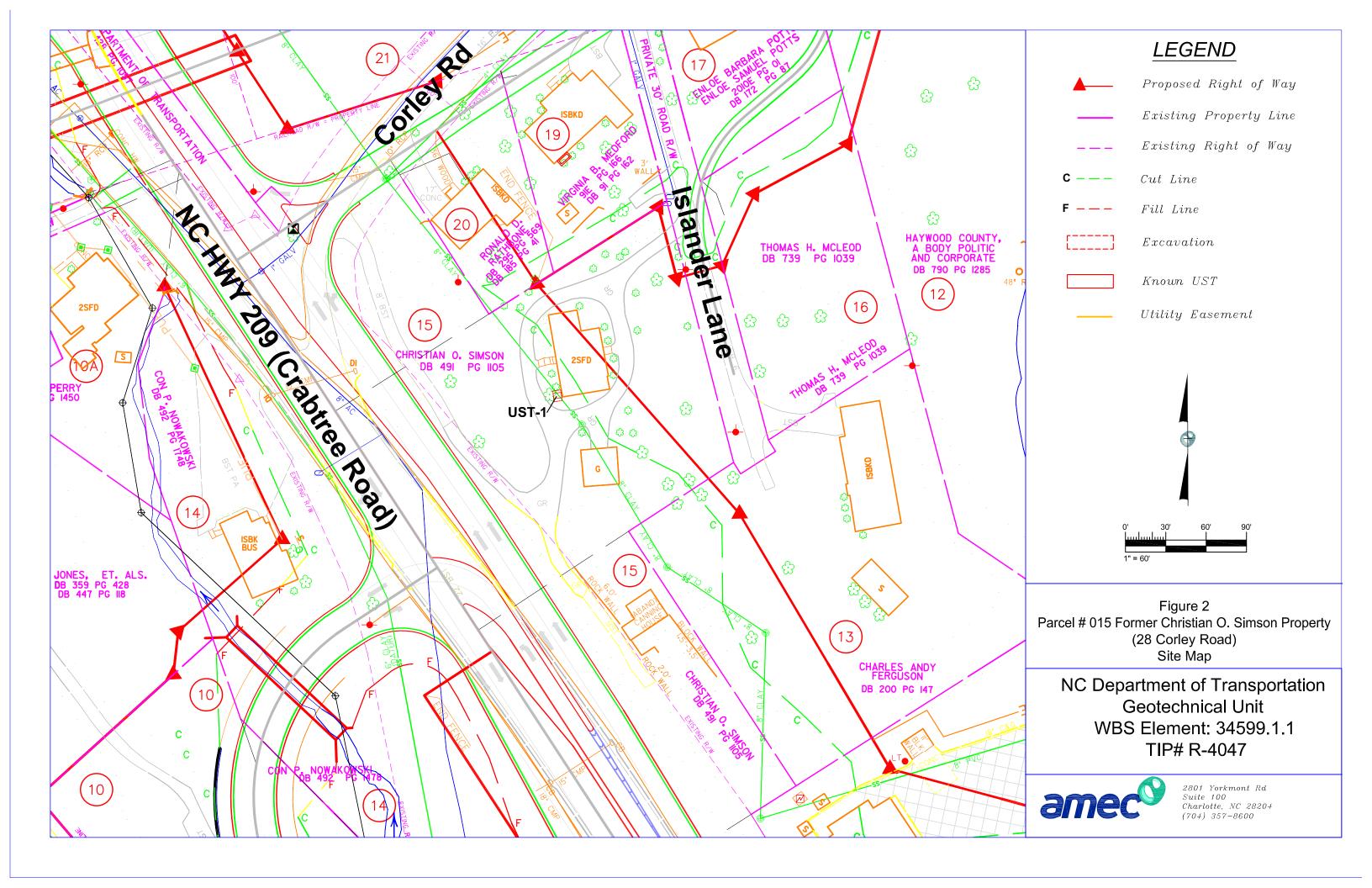


Table 1 PID Field Screening Parcel 015 28 Corley Rd, Lake Junaluska, North Carolina

SAMPLE ID	Sample Date	Comments	Sample Depth (feet bgs)	Field Screening (ppm)					
P-1	7/19/2013	Composite Grab East Sidewall	1	0					
P-2	7/19/2013	Composite Grab Over UST-1	2	0					
P-3	7/19/2013	Composite Grab Over UST-1	3	0					
P-4	7/19/2013	Composite Grab East Sidewall	5	0					
P-5	7/19/2013	Composite Grab East Sidewall	7	0					
P-6	7/19/2013	Composite Grab West Sidewall	7	0					
P-7	7/19/2013	Composite Grab North Sidewall	7	0					
P-8	7/19/2013	Composite Grab South Sidewall	5	0					
P-9	7/19/2013	Composite Grab South Sidewall	7	0					
P-10	7/19/2013	Composite Grab Floor	7	0					
Notes: PPM =	Notes: PPM = Parts Per Million								

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Photo 1

Site prior to excavation activities .



Photo 2

Vac truck evacuating the UST.



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PROCESSED TLH
DATE July 2013
PAGE



Photo 3

A&D Personnel Pressure Washing the UST to render the UST inert.



Photo 4

Back hoe Excavator uncovering the UST



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DATE July 2013
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Photo 5

UST after being excavated. The UST was crushed during removal due to the tree roots that were around the tank.



Photo 6
Site upon completion of excavation activities.



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amec	EXCAVATION NO: UST-1
EXCAVATION LOG: Parcel 015 - WBS Element: 34599.1.1	PAGE 1 OF 1
LOCATION: 28 Corley Rd, Lake Junaluska, Haywood Co., North Carolina	DATE: 7-19-13
CONTRACTOR: A & D	START: 1100
HELPER: N/A	FINISH: 1200
EXCAVATION METHOD: Back Hoe	LOGGED BY: TLH

NOTES:

Groundwater was not encountered during the excavation

DEPTH TO ROCK: No bedrock was encountered

TOTAL DEPTH OF EXCAVATION: 7 ft bgs

DEPTH IN FEET		MOISTURE	SOIL / BEDROCK DESCRIPTION	PID - Maximum (ppm)
FROM	то			
0	0.5	Moist	Black, Organic Material/Soil	0
0.5	7	Moist	Orange/Tan, Silt, Micaceous	0



A&D Environmental Services

Bill of Lading / Material Manifest

	Generator's Name and Malling Address				Page 1 of Emergency Response Phone Trackin 800-434-7750 Generator's site address (if different from mailing add					oking Number 07199			
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(b) A&D Environmental Services Bill of Lading / Material Manifest

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Generala	r's Certificat	ion: This is	to certify that if	ne above-name	d materials are	property clessific	nt for Placycle (ed. described, pa	ckaged marked		d and are in pr	oper conditi	on for transportation	ecoording to	o the
unioss ap	ecifically ident	Med above	the materials co	main less then	1,005 ppm total	helogens and do	o not cortain qua Signature	rittatig levels (i	ppm) of PCI	Be as defined by	EPA 40 CF	R Parts 279 and 761 Month	Day	Year
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