# UST Closure Report Former Molgora Property

6002 Raeford Road Fayetteville, North Carolina

Prepared for: N.C. Department of Transportation Geotechnical Engineering Unit 1589 Mail Service Center Raleigh, NC 27699

> Prepared by: Draper Aden Associates 1101 Nowell Road Raleigh, NC 27607

> > 18110156-010701

February 12, 2019



#### **UST CLOSURE REPORT**

Site Name and Location:	Former Molgora Property UST Closure 6002 Raeford Road Fayetteville, North Carolina 28314
Facility ID Number:	N/A
Latitude and Longitude:	35.044469 North, -78.976918 West (Source: Google Maps)
Date of Report:	February 5, 2019
Land Use Category:	Industrial/commercial
UST System Owner:	NCDOT- Abandoned USTs
Land Owner:	Carlos Ramirez Garcia 6002 Raeford Road Fayetteville, North Carolina 28314
Consultant:	Draper Aden Associates 1101 Nowell Road Raleigh, North Carolina 27607

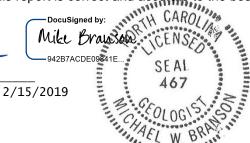
**Release Information:** The UST system at the site included two 4000-gallon petroleum, one 1,000-gallon petroleum, and one 550-gallon kerosene tanks. Staining and odors were observed below the kerosene UST; all excavated soils, including contaminated soils, excavated USTs, and connective piping were disposed off-site by EVO Corporation.

#### Seal and Signature of Certifying Licensed Geologist

I, Michael Branson, a **Licensed Geologist**/Professional Engineer for Draper Aden Associates, do certify that the information contained in this report is correct and accurate to the best of my knowledge.

micha w. Brans

Michael W. Branson, P.G. NC License No. 467



Draper Aden Associates is licensed to practice geology in North Carolina. The certification number of the company or corporation is C-379.

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# **1.0 INTRODUCTION**

On July 2, 2018, the North Carolina Department of Transportation (NCDOT) requested that Draper Aden Associates (DAA) conduct closure activities and prepare a report for petroleum underground storage tanks (USTs) in the parking lot at 6002 Raeford Road, Fayetteville, North Carolina (site). Prior to DAA's mobilization to the site, the property was sold to the current owner, Carlos Ramirez Garcia. As a result of the sale, the NCDOT did not have a valid access agreement. The access agreement with Mr. Garcia was finalized in early December 2018. Although not the owner or user of the tanks, NCDOT was allowed to remove the tanks from the proposed right-of-way and easement for improvements on Raeford Road.

The site is located at 6002 Raeford Rd., Fayetteville, NC, approximately 150 feet west to the intersection of Raeford Road and Skibo Road (**Figure 1**). On January 7<sup>th</sup> through January 9<sup>th</sup>, 2019, DAA personnel observed excavation activities and collected required soil samples to achieve closure for the UST. This report documents these activities and has been prepared following the most recent version of the *Underground Storage Tank Section Guidelines For Site Checks, Tank Closure, and Initial Response and Abatement*, published by the UST Section, North Carolina Department of Environmental Quality (NCDEQ) Division of Waste Management ("*Guidelines*").

# 2.0 SITE HISTORY AND CHARACTERIZATION

#### 2.1 UST OWNER AND OPERATOR INFORMATION

According to the NCDEQ on-line UST registration database, no USTs were registered for the property address. Although the NCDOT did not own or operate the UST, they accepted responsibility for the UST closure in order to perform improvements on Raeford Road. UST owner and operator information was summarized in **Table 1**.

#### 2.2 UST INFORMATION

Solutions-IES, Inc., performed a Preliminary Site Assessment (PSA) at the above-referenced property in December of 2016. Three USTs were closed in-place as referenced in a UST Closure Report by Environmental Hydrogeological Consultants, Inc., dated November 22, 2004.

The 2004 closure report indicated that the USTs were two 3,000-gallon petroleum tanks and one 550gallon kerosene tank. Subsequent field observations for the removal indicated one 1,000-gallon, one 550-gallon and two 4,000-gallon tanks. **Table 2** summarizes the UST information including the last known tank contents, tank capacity and construction, tank dimensions (based on observations during the current closure activities), status of the tank, and known release information. The USTs location is between the business and Raeford Road (**Figures 2 and 3**). The previous report also indicated that the USTs were closed in-place; however, the USTs were not filled with inert material.

#### 2.3 NON-UST INFORMATION

No non- UST sources of contamination were observed.

#### 2.4 HISTORIAL RELEASE DESCRIPTION

According to the NCDEQ on-line records for releases, no incident has been reported at this location. The UST Closure Report referenced in Section 2.2, states that soil samples were collected from six borings around the USTs. One sample detected 12 millgrams per kilogram (mg/kg) of total petroleum hydrocarbons (TPH) as diesel range organics (DRO). Following the closure, S&ME conducted soil and groundwater sampling reported in 2004, to evaluate the site. One of the five soil samples collected (near kerosene tank) detected concentrations of gasoline range organics (GRO) of 1,100 mg/kg and DRO concentration of 3,400 mg/kg. These values were above the 2004 action limits. During groundwater sampling, volatile petroleum contituents were analzed and the results concluded that all target compounds were below the 2004 groundwater quality standard.

#### 2.5 SITE CHARACTERISTICS

Land use at the site is a commercial business with parking lot in an industrial/commercial area of Fayetteville, just 150 feet west of the intersection of Raeford Road and Skibo Road. The business on the property include an electronic repair shop, owned my Mr. Garcia. Land use within 1,500 feet of the property is a mix of retail and commercial enterprises.

### 3.0 CLOSURE PROCEDURES

#### 3.1 PREPARATION OF UST CLOSURE

DAA contracted EVO Corporation of Winston-Salem, North Carolina, for the UST's excavation, removal, and disposal. Prior to mobilizing to the site, a UST-3 form was completed and submitted to the NCDEQ (**Appendix A**) and North Carolina One Call was notified to locate underground utilities.

Due to the heavy traffic associated with Raeford Road and Skibo Road at the site, a private traffic control contractor was used to block lanes and direct traffic flow when necessary.

#### 3.2 DESCRIPTION OF CLOSURE PROCEDURES

On January 7, 2019, DAA field personnel arrived at the site to begin the closure procedure with EVO . EVO began by cutting, removing, and disposing of concrete above the proposed UST area. Liquid contents were vacuumed and disposed off-site prior to adding dry ice pellets to the inside of the tanks for oxygen removal. Three USTs (UST-1 — UST-3) were removed from excavation area and transported for disposal on January 8, 2019. Soil samples were screened during the excavation with a MiniRAE photoionization detector (PID) and analyzed by RED Lab, LLC using an onsite mobile laboratory. During sampling procedures, a fourth UST was discovered in the southwestern portion of excavated area. Removal and soil sampling procedures for UST-4 took place on January 9, 2019.

DAA inspected the tanks and observed no holes in the UST walls. Product lines were observed in the vicinity of the larger USTs. The USTs and their contents were disposed at the Foss Recycling, 3459 Thomasville Road, Winston-Salem, North Carolina (**Appendix B**). Following removal, DAA completed the UST-2B "Site Investigation Report for Permanent Closure or Change-in-Service of Unregistered UST" form. This form is included as **Appendix C**.

#### 3.3 RESIDUAL MATERIAL REMOVED

Approximately 675 gallons of diluted petroleum contact water were removed during the tank cleaning activities. The material was disposed off-site at the permitted EVO facility (**Appendix B**).

#### 3.4 SOIL EXCAVATION ACTIVITIES

Former Molgora Property UST Closure Report Fayetteville, North Carolina, 18110156-010701 February 5, 2019 Soils removed prior to removal of USTs were disposed off-site by EVO. Three tanks (UST-1, UST-2, and UST-4) were buried to a depth of about 2.5 feet below ground surface (ft bgs); UST-3 (the kerosene UST) was located at a depth of about 4 ft bgs. During soil excavation, the excavation sidewall and base conditions were observed. Staining and odors were identified in the soil located at the side walls and base of UST-3, but no staining or odors were observed at the other USTs. Additional excavation was completed beneath UST-3 and soils samples were analyzed to a final depth of 10 ft bgs, where soils reached a value below the DRO/GRO action limits.

About 155 tons of nonhazardous contaminated soil were disposed off-site by EVO. Excavation activities did not encounter groundwater or bedrock. The excavation was backfilled with 154 tons of clean soil and 22 tons of quarry fill on top. Photographs taken during the excavation activities are presented in **Appendix D**.

#### 3.5 SITE INVESTIGATION

#### Field Screening of Soils

Soils were screened in the field using a calibrated photoionization detector (PID). Discrete soil samples collected from the excavated areas were placed in resealable plastic bags. The bags were sealed and the headspace within the bag was allowed to equilibrate out of direct sunlight. The probe of the PID was then inserted into the headspace of the bag and the concentration of volatile organic compound (VOC) vapors present in the headspace was recorded in the field log book. All field measurements are summarized in **Table 3**.

#### Closure Soil Sampling

In compliance with the *Guidelines*, DAA collected 3 confirmation soil samples from below the bottom of the 4,000-gallon USTs; 3 confirmation soil samples, two from the base and one from the sidewall, of the 1,000-gallon UST-3 excavation; and one confirmation sample from the excavation base for the 550-gallon UST-4. The confirmation samples were collected directly from the backhoe bucket, sample depths are presented on **Table 3**. The soil sample locations are shown in **Figure 3**.

Samples were collected in clear plastic bags, labeled with the sample location information and given to RED Lab, LLC, a North Carolina-certified laboratory in Wilmington, North Carolina, to perform on site

Former Molgora Property UST Closure Report Fayetteville, North Carolina, 18110156-010701 February 5, 2019 analysis. RED Lab, LLC performed analytical testing using their mobile laboratory equipment on January 8<sup>th</sup> and 9<sup>th</sup>, 2019. All samples were analyzed for diesel range and gasoline range organics (DRO/GRO) using the ultraviolet fluorescence (UVF) method.

The analytical results indicate that no GRO concentrations were detected in closure samples from below UST-1, UST-2, or UST-4. The closure sample from below UST-3 contained a GRO concentration of 180.7 milligrams per kilogram (mg/kg), which is above the GRO action level of 50 mg/kg. DRO concentrations were detected in all the closure samples, but only the closure sample from below UST-3 contained DRO (1,606 mg/kg) above the action level of 100 mg/kg. Based on the analytical results, additional soil was removed from the UST-3 area. Confirmation samples were collected at depths of 9 and 10 ft bgs below UST-3. Analysis of the confirmation sample at 10 ft bgs detected no GRO above the method detection level and a DRO concentration 0.06 mg/kg. Both of these results were below their respective action level. **` Table 4** summarizes the laboratory analytical results for the soil samples and **Appendix E** provides a copy of the laboratory analytical reports.

#### Groundwater and Surface Water Samples

Groundwater was neither encountered during the UST removal activities nor sampled. No surface water features from which samples can be collected exist at the site.

#### **Quality Control Measures**

Samples collected by field staff were taken directly from the backhoe bucket by hand, using a new pair of Nitrile gloves for each sample. Samples submitted for laboratory analysis were collected using NCDEQ-approved methods and placed in non-preserved plastic bags with sample location information and given directly to REC Lab, LLC personnel for requested analysis. RED Lab, LLC completed on-site analyses required for UST closure.

# 4.0 SUMMARY AND CONCLUSIONS

On January 9<sup>th</sup>, 2019 DAA personnel permanently closed two 4,000-gallon petroleum USTs, one 1,000gallon kerosene UST, and one 550-petroleum UST from a parking lot at 6002 Raeford Road. Fayetteville, North Carolina. The tanks and approximately 675 gallons of petroleum and water were removed from the site. Confirmation sampling included 3 soil samples from below the bottom of the 4,000-gallon USTs; 3 soil samples in the sidewall and base of the 1,000-gallon UST-3; and one sample from beneath the 550-gallon UST-4. Odor and staining were observed in the samples located at UST-3 prior to over excavation, but were not observed after the over excavation. No groundwater or bedrock was observed during the excavation.

The analytical report indicated that soils from beneath UST-3 contained DRO and GRO concentrations above the action levels for UST-3. Following over excavation, detected concentrations were below the action limit (<0.47 mg/kg for GRO and 0.06 mg/kg for DRO) for UST-3. No other samples indicated DRO or GRO concentrations above action limits. As a result, DAA recommends that this report be submitted to the NCDEQ UST Section Fayetteville Regional Office with a request for no further action.

TABLES

# TABLE 1SITE HISTORY – UST OWNER AND OPERATOR INFORMATION<br/>Molgora UST Closure<br/>6002 Raeford Road<br/>Fayetteville, Cumberland County, North Carolina<br/>Draper Aden Associates Project No. 18110156-010701

Incident Number and Name: <u>UST Closures, Molgora</u>

UST ID Number	Not Applicable	Facility ID	Number	Not Applicable				
Name of Owner		Dates of 0	Dates of Operation					
		(mm/dd/y	(mm/dd/yy to mm/dd/yy)					
NCDOT- Abandoned	in right-of-way	Unknown	Unknown					
Street Address								
6002 Raeford Road								
City	State	Zip	Telephone Number					
Fayetteville	NC	28314	N/A					
Name of Operator		Dates of 0	Dates of Operation					
		(mm/dd/y	(mm/dd/yy to mm/dd/yy)					
Abandoned in right-o	of-way	Unknown	Unknown					
Street Address								
6002 Raeford Road								
City	State	Zip	Telephone	Number				
Fayetteville	NC	28314						

#### TABLE 2

#### SITE HISTORY - UST/AST SYSTEM INFORMATION Molgora UST Closure 6002 Raeford Road Fayetteville, Cumberland County, North Carolina Draper Aden Associates Project No. 18110156-010701

Incident Number and Name:

6002 Raeford Road UST Closure Report

UST ID Number	Current/Last Contents *	Previous Contents *	Depth (ft bgs)	Capacity (in gallons)	Construction Details **	Tank Dimensions (ft)	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST***	Was release associated with the UST System?
1	Petroleum	Contents unknown	2.5	4,000	Steel	5.5' x 24'	Product piping	Unknown (1960s?)	Closed 11/22/2004 Removed 1/8/2019	No
2	Petroleum	Contents unknown	2.5	4,000	Steel	5.5' x 24'	Product piping	Unknown (1960s?)	Closed 11/22/2004 Removed 1/8/2019	No
3	Kerosene	Contents unknown	4.0	1,000	Steel	4' x 11'	Product piping	Unknown (1960s?)	Closed 11/22/2004 Removed 1/8/2019	Yes
4	Petroleum	Contents unknown	2.5	550	Steel	3.5' x 7.5'	None	Unknown (1960s?)	Removed 1/8/2019	No

\* Gasoline (unleaded or leaded), diesel, used oil, waste oil, aviation fuel, etc., or pesticides, non-halogenated or halogenated solvents, etc.

\*\* Fiberglass (single- or double-walled), steel (single- or double-walled), steel with FRP (single- or double-walled), steel with liner, other, unknown.

\*\*\* Currently operational, not in use or temporarily closed (specify date), permanently closed in place (specify date), permanently closed by removal (specify date)

# TABLE 3SUMMARY OF FIELD SCREENING RESULTSMolgora UST Closure6002 Raeford RoadFayetteville, Cumberland County, North CarolinaDraper Aden Associates Project No. 18110156-010701

Sample ID	Depth (ft bgs)	Location	Sample Type	PID Reading (ppm)
UST-1-E	9	UST-1	Soil	0
UST-1-C	9	UST-1	Soil	0
UST-1-W	9	UST-1	Soil	0
UST-2-E	9	UST-2	Soil	0
UST-2-C	9	UST-2	Soil	0
UST-2-W	9	UST-2	Soil	0
UST-3-SW-S	6	UST-3	Soil	230
UST-3-C	9	UST-3	Soil	57.3
UST-3-2C	10	UST-3	Soil	7.7
UST-4	8	UST-4	Soil	0

Notes:

ppm = parts per million.

ft bgs = feet below ground surface

#### TABLE 4 ANALYTICAL RESULTS FOR SOIL Molgora UST Clousre 6002 Raeford Road Fayetteville Cumberland County, North Carolina Draper Aden Associates Project No. 18110156-010701

Inciden	ot Applicab	e			
	Laborato	ory Results			
Sample ID	Date Collected	Depth (ft bgs)	Incident Phase	GRO (C5 - C10)	DRO (C10 - C35)
UST-1-E	1/8/2019	9	Closure	<0.45	0.08
UST-1-C	1/8/2019	9	Closure	<0.49	0.41
UST-1-W	1/8/2019	9	Closure	<0.51	0.05
UST-2-E	1/8/2019	9	Closure	<0.56	0.07
UST-2-C	1/8/2019	9	Closure	<0.66	0.09
UST-2-W	1/8/2019	9	Closure	<0.57	0.78
UST-3-SW-S	1/8/2019	6	Closure	180.7	1606
UST-3-C	1/8/2019	9	Confirmation	15.5	133.4
UST-3-2C	1/8/2019	10	Confirmation	<0.47	0.06
UST-4	1/9/2019	8	Closure	<0.46	0.29
Action level (ppm)				50	100

Notes:

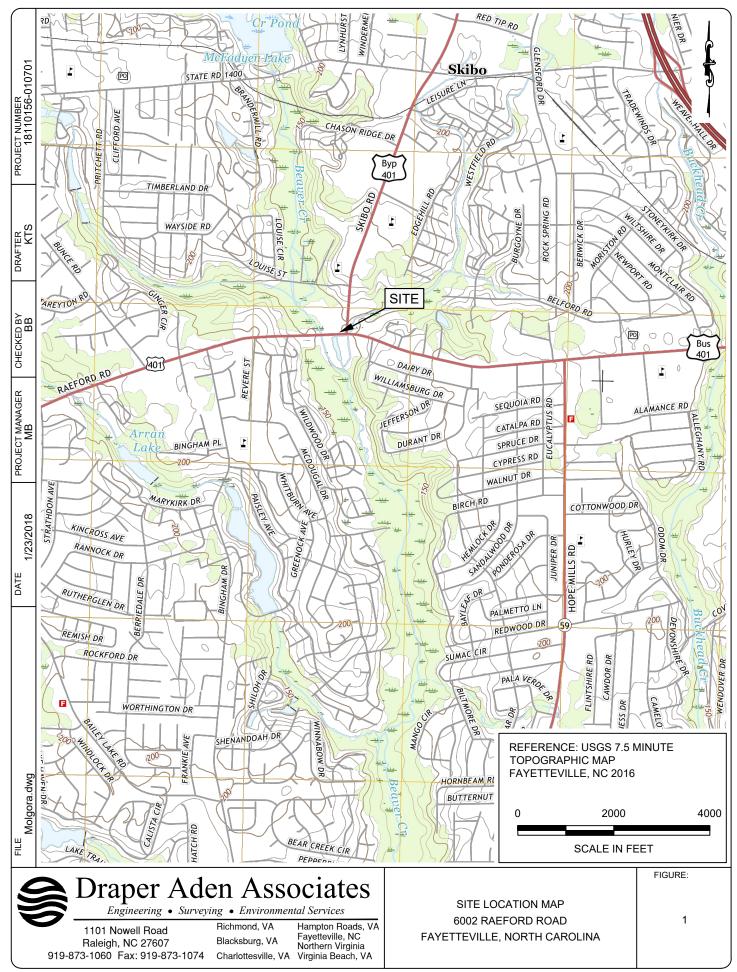
All constituent concentrations are reported as milligram per kilogram (mg/kg)

ft bgs = feet below ground surface

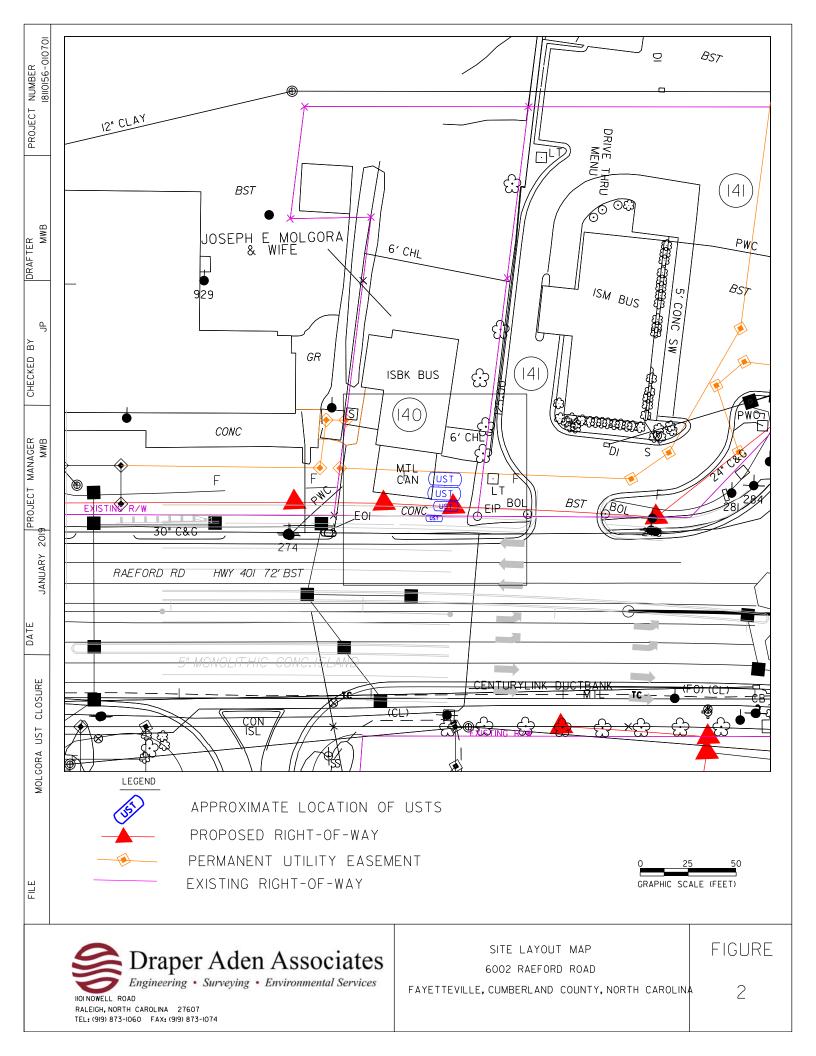
Bold value indicates compound is above the reporting limit.

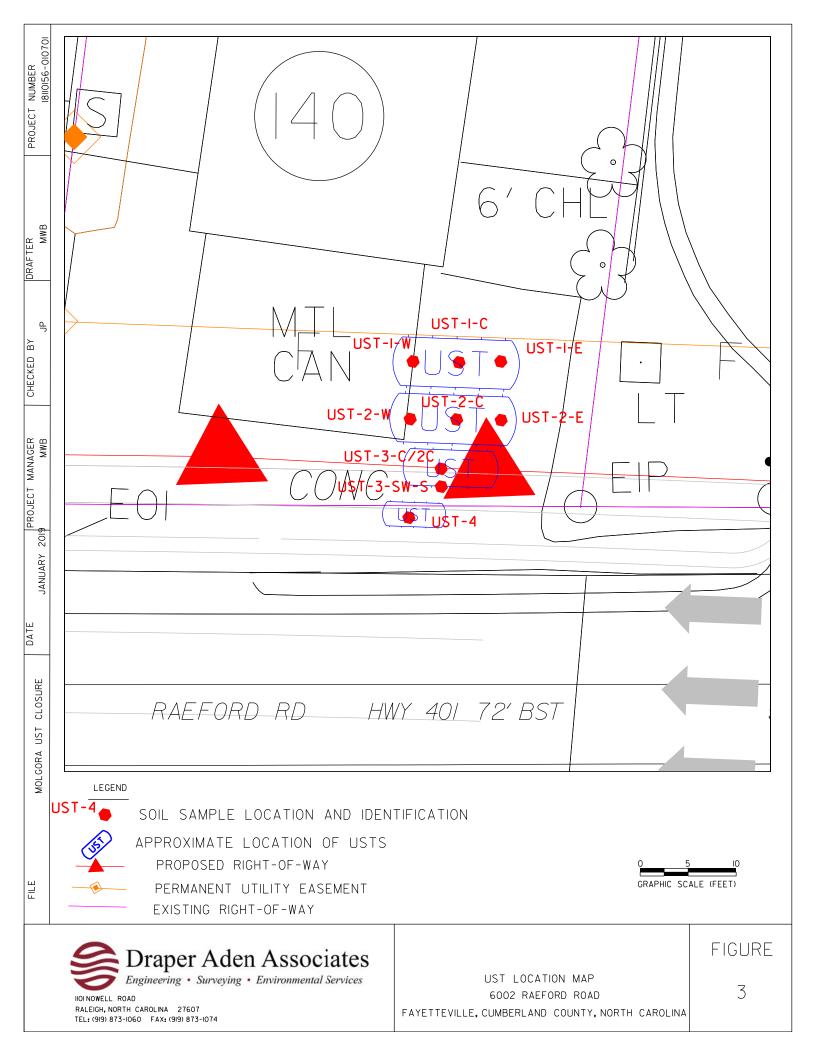
Shaded values exceed the action level

**FIGURES** 



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## **APPENDIX A**

UST-3 Form - "Notice of Intent: UST Permanent Closure or Change-in-Service"

# **UST-3** Notice of Intent: UST Permanent Closure or Change-in-Service

rn comp	leted f	form	to:
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Retu

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in <u>Raleigh</u> so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY

Date Received
---------------

I.D. #

#### INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response.* The guidelines can be obtained at <a href="http://www.wastenotnc.org/web/wm/">http://www.wastenotnc.org/web/wm/</a>. Note: To close tanks in place you must obtain prior approval from the DWM Regional office located in the region where the facility is located.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

	I. OWNERSHIP			II. LOCATION						
Owner Name (C Abandoned in rig	orporation, Individual, F Jht-of-way	ner Entity)		Facility Name or C Jnknown	ompany					
Street Address 6002 Raeford	· · · · ·			F	Facility ID # (If kno	wn)				
<b>ିନ୍</b> ରୁd Fayetteville		County Cumberland			Street Address 6002 Raeford Roa	d				
State NC		Zip Code			City Fayetteville		County Cumberla	Zip Code and		
Phone Number (910) 237-3210				F	Phone Number 910) 23					
III. CONTACT PERSONNEL										
Name: Craig Haden		Company Name: NCDOT			Job Title: Project Ma	anager		Phone Number: 9197076871		
	Π	V. TANK REMOV	AL, CLOSI	URE IN	PLACE, CHAN	IGE-IN SERV	<b>ICE</b>			
<ol> <li>Plan entire</li> <li>Conduct Sit</li> <li>If removing API Public Storage Tage</li> </ol>	al fire marshal. closure event. e Soil Assessment. tanks or closing in plac ation 2015 <i>Cleaning</i> anks and 1604 <i>Ren</i> f Used Underground	oil sampling l ubmit a clos IST-12 (inclu hirty (30) hvestigation. a release fro	ocations sure rep iding the days om the ta	port in the forma e form UST-2) v following the anks has occurred	as: at of an vithin no site se: 8. Ke I, the	sessment d seal of t occurre al of a P.I	r L.G., with all closure site t reports bearing the signature the P.E. or L.G. If a release has d, the supervision, signature or E. or L.G. is not required. re records for three (3) years.			
Disposal of Used Underground Petroleum Storage Tanks.										
V. WORK TO BE PERFORMED BY										
Contractor Name:     Contractor Company Name:       Tony Disher     EVO Corp										
Address: 1703 Vargrave, V	Winston-Salem			State: NC	e: Zip Code: 27107			Phone No: 3367255844		
Primary Consulta Michael Bransor			Primary Co Draper Ade	nsultant n Assoc	tant Company Name: Consultant Phone No: ssociates 919-873-1060					
	V	I. TANKS SCHED	DULED FOR	R CLOS	SURE OR CHAI	NGE-IN-SER	VICE			
							roposed A			
Tank ID No.	Size in Gallons	Last	Contents		Removal	Closure Abandonment in	Place *	Change-In-Service New Contents Stored		
1 1	3000	Petroleum	Contents				i lace	New Contents Stored		
2	3000	Petroleum								
3	550	Petroleum								
-										
* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.										
VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE										
I understand tha	t I can be held responsi	ible for environmenta	al damage re	sulting fr	rom the improper	disposal of my	USTs.			
Print name and o	official title: Michael	Branson, DAA Proje	ect Manager	for NCD	ОТ					
Signature				SignedSCHEDULED REMOVAL DATENotify your DWM R01/07/201948 hours before thi				ntify your DWM Regional Office hours before this date if heduled removal date changes		

# **APPENDIX B**

Certificate of Disposal & Non-Hazardous Materials Manifest



1703 Vargrave Street Winston-Salem, NC 27107 ph 338-725-5844 fax 336-725-6244

# TANK DISPOSAL CERTIFICATE

Tank Owner:

NCDOT

Site Address:

6002 Raeford Road Fayetteville, NC

Description of Tanks:

<u>Tank</u> Number	Size of Tank	<u>Contents</u>
1	4,000 Gallons	Gasoline
1	4,000 Gallons	Gasoline
1	1,000 Gallons	Gasoline
1	550 Gallons	Kerosene

Transporter: Evo Corporation

EC Project #: 011907

**Disposal Certification:** 

Evo Corporation does hereby certify that the above named storage tanks were transported to Foss Recycling, 3459 Thomasville Road, Winston-Salem, NC for proper disposal and recycling.

man W. Han

Signature

Thomas W, Hammett CEQ Evo Corporation

www.evocorp.net THE NEXT LEVEL.



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

# **CERTIFICATE OF DISPOSAL**

Evo Corporation does hereby certify that 675 gallons of non-hazardous contaminated water received on 1/8/2019 and 1/9/2019 from:

Generator: NCDOT

Originating at:

6002 Raeford Road Fayetteville, NC

EC Waste ID #: 011907

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

W. Hamel

Signature

Thomas W. Hammett CEO Evo Corporation

www.evocorp.net THE NEXT LEVEL.



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

# **CERTIFICATE OF DISPOSAL**

Evo Corporation does hereby certify that 154.56 tons of non-hazardous contaminated material received on 1/7/2019, 1/8/2019 and 1/9/2019 from:

Generator: NCDOT

Originating at: 6002 Raeford Road Fayetteville, NC

EC Waste ID #: 011907

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

mark, Hum

Signature

Thomas W. Hammett CEO Evo Corporation

www.evocorp.net THE NEXT LEVEL.

# **APPENDIX C**

UST-2B Form – "Site Investigation Report for Permanent Closure or Change in Service of Unregistered UST"

US	UST-2B Site Investigation Report for Permanent Closure or Change-in- Service of UN-REGISTERED UST													
Return con	npleted forr	n to:			UN-RE	GISTE	ERED US			ONLY:		270	Quality	
		NC I 1646 RAL	S MAIL SERVE				Facility ID #			ONLT.				
		ATT	N: REGISTR	ATION & PER	RMITTING		Date Receive	d						
phone	(919) 707-8	171 fax (91	9) 715-1117	http://www.w	vastenotnc.org/									
	TIONS (RE													
Clos	Closure and Initial Response and Abatement. The guidelines can be obtained at <a href="http://deq.nc.gov/about/divisions/waste-management/waste-management/waste-management/waste-management/waste-management-permit-guidance/underground-storage-tanks-section">http://deq.nc.gov/about/divisions/waste-management/waste</a>													
<ol> <li>Permanent closure: Complete all sections of this form.</li> <li>Change-in-service: Where UST systems will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI.</li> </ol>														
		0	,	-	ditional forms a		d.							
	<ol> <li>Un-Registered USTs may be subject to unpaid fees and late penalties.</li> <li>REGISTERED USTs use Form UST-2A.</li> </ol>													
I. OWNERSHIP OF TANKS II. LOCATION OF TANKS														
Owner Nam Abandon	e (Corporat d in right	ion, Individı -of-way	ıal, Public Aç	gency, or Other	r Entity)	Facility Name or Company Abandoned in right-of-way								
Street Addr 6002 Raet	ess ord Road					Facility	y ID # (If know	vn)						
City Fayettevil	le		C	ounty Cumberland		Street Address 6002 Raeford Road								
State NC			Zi	p Code 28304	4	City Fayet	teville			<sup>inty</sup> mberl	and	Zip C 28	ode 304	
Phone Number NA Phone Number NA														
Contact for	ACT PERS	ONNEL					Job Title:		Pho	ne #·				
Contact for							Project M	anager		one #: g	919-70	07-68	71	
Tony Dishe			EVO Corpo					grave St, Wins	330	one # 5-725-	5844			
Primary Co Micheal Br	nsultant Nar anson	ne:	Primary Con Draper Ad	sultant Compa en Associate	iny: S		Address: 1101 Now	ell Road, Rale		one # 9-873-	1060			
			JN-REGIST Form UST-2	TERED <b>UST</b> : PA.	SYSTEMS				V. E	EXCAV	/ATIO	N СО	NDITI	ON
Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of F Indicate RE material con	MOVED	or enter fill s foam/	Change-in- Service Date		ter in vation No	Free p Yes	oroduct	odo visibl contar	able or or le soil minatio n No
1	4000	Petroleun	n Unknowr	1/8/2019	Removed									
2	4000	Petroleun	Unknowr	1/8/2019	Removed									
3	1000	Petroleun	Unknowr	1/8/2019	Removed									
4	550	Petroleun	Unknowr	1/9/2019	Removed									
VI. CERTI														
	y inquiry of							submitted in this lieve that the su						
				authorized rep	resentative									
Michael Bi Signature		-	Manager fo				Date Signe	ed						
	1-5325		l Bran				_	2/5/2019						
1646 MAIL								WASTE MANAC 715-1117 <u>http:/</u>					1/	2016

# **APPENDIX D**

Photographs



Photo 1: Site photo of parking lot, toward East



Photo 2: Backhoe excavation of abandoned UST





Photo 3: Excavation area prior to tank removal, facing the South.



Photo 4: UST-3 removal, 550-gallon kerosene UST





Photo 5: UST-2 removal, 4,000-gallon petroleum UST, facing West



Photo 6: UST-2 removal, 4,000-gallon petroleum UST, facing Northwest





Photo 7: UST-1 removal, 4,000-gallon petroleum UST, facing West



Photo 8: Backhoe excavation of abandoned UST, discovery of UST-4





Photo 9: UST-4, 1000-gallon petroleum UST, facing Southwest



Photo 10: UST connections





Photo 11: Backfill of excavated area, facing West

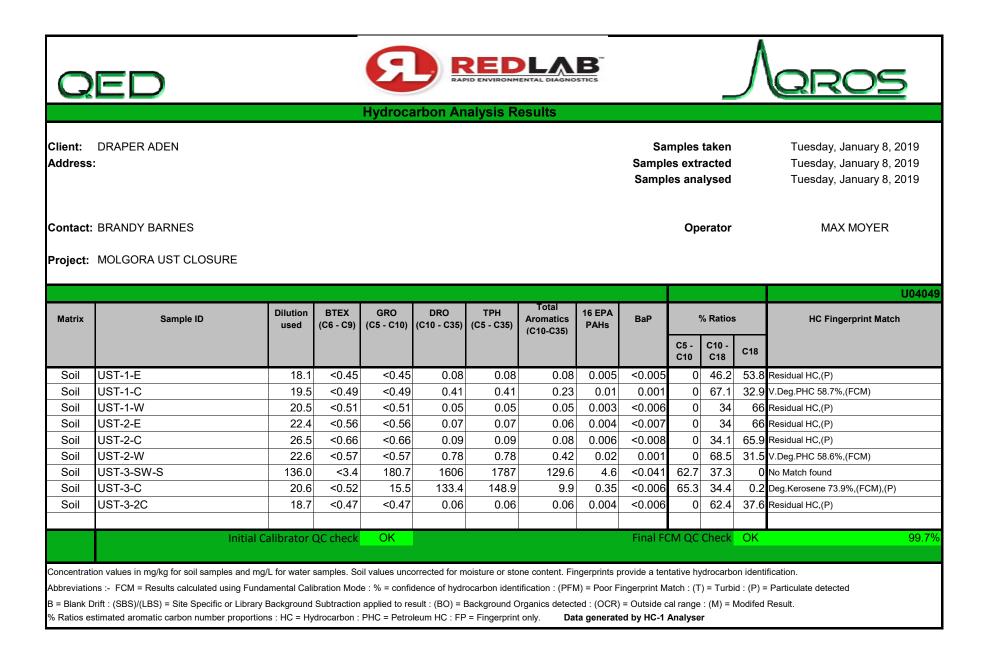


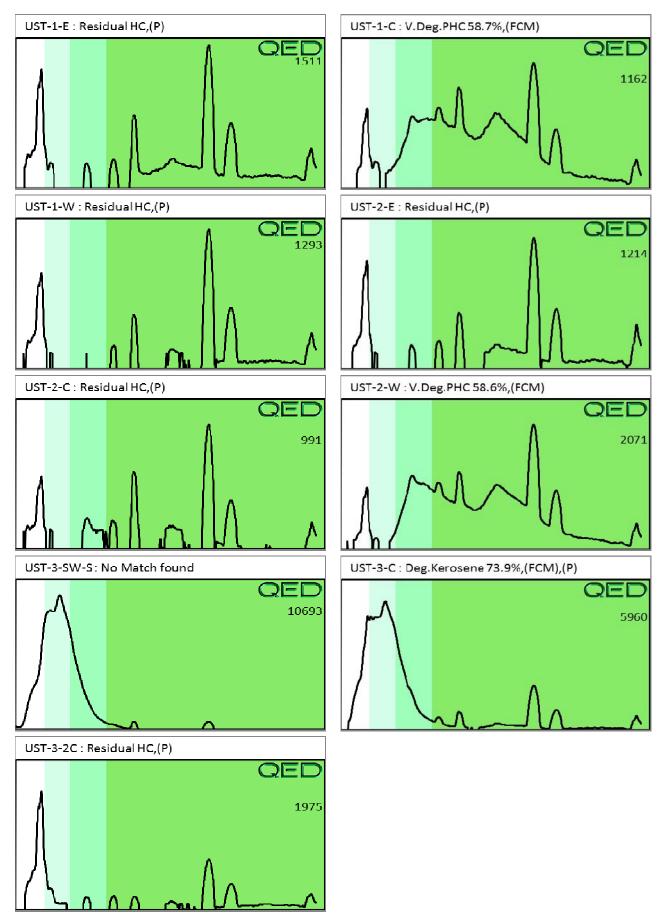
Photo 12: Backfill of excavated area, facing Northwest



# **APPENDIX E**

Laboratory Analytical Report and Chain of Custody





Q	ED			E	RAS			B					<u>QROS</u>
				Hydroca	rbon An	alysis R	esults						
Client: Address:	DRAPER ADEN								Sa Sample Sampl	es exti			Wednesday, January 9, 2019 Wednesday, January 9, 2019 Wednesday, January 9, 2019
Contact:	BRANDY BARNES									Ор	erator		MAX MOYER
Project:	MOLGORA UST CLOSURE												
													U04049
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	·	% Ratios	6	HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
Soil	UST-4	18.3	<0.46	<0.46	0.29	0.29	0.06	0.004	<0.005	0	100	0	Deg Fuel 69.8%,(FCM)
	Initial C	alibrator	QC check	OK				·	Final FC	CM QC	Check	OK	105.6%
Abbreviatior B = Blank D	on values in mg/kg for soil samples and mg/ ns :- FCM = Results calculated using Funda rift : (SBS)/(LBS) = Site Specific or Library E timated aromatic carbon number proportion	mental Cali Background	bration Mode	e : % = confid applied to res	ence of hydro ult : (BO) = B	ocarbon identi ackground Or	fication : (PFM ganics detecte	) = Poor Fir d : (OCR) =	ngerprint Mat	ch : (T) range :	= Turbid	: (P) = F	Particulate detected

