

September 15, 2022

Ms. Sylvia Hunneke
North Carolina Department of Environmental Quality
Washington Regional Office
Division of Waste Management, UST Section
943 Washington Square Mall,
Washington North Carolina 27889

**Subject: UST Closure Report
Alex Economy Property
3114 Central Heights Road
Goldsboro, Wayne County, North Carolina
Mid-Atlantic Job No. 000R3203.02**

Dear Ms. Hunneke:

On behalf of North Carolina Department of Transportation, Mid-Atlantic Associates, Inc. is pleased to submit the enclosed UST Closure Report for the Alex Economy Property located at 3114 Central Heights Road in Goldsboro, North Carolina. If you have any questions, please feel free to contact me at (919) 250-9918.

Sincerely,

MID-ATLANTIC ASSOCIATES, INC.

Signature for Trey Marchant

Raymond S. Marchant, III, P.G.

Principal Geologist



Experienced. Customer Focused. Innovative.

UST Closure Report



Located at:

**3114 Central Heights Road
Goldsboro, Wayne County, North
Carolina**

Prepared for (User):

**North Carolina Department of
Transportation
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589
919-707-6871**

Alex Economy Property

Parcel 17

TIP No: U-5724

WBS

Element: 54016.1.2

Description: US13

(Berkeley Blvd) -

Realignment of SR 1709

(Central Heights Rd) at

Berkeley Blvd

UST CLOSURE REPORT

In addition to reporting initial response and abatement actions and assessment actions and presenting initial site characterization, this newly-created Initial Abatement Action Report must fulfill the requirements, when a release has been discovered, for the following individual reports:

- Site Check Report** (Section C)
- UST Closure Report (UST-12) with UST-2 Form** (Section D)
- Post-Excavation Soil Contamination Assessment Report** (Section H)
- Free Product Recovery Report** (Section E)

Check the applicable report(s). Complete Section A-L, as required, including the sections specifically designated for the reports you have indicated. The Initial Abatement Action Report must be submitted to the appropriate regional office within 90 days following discovery of release.

A. Site Information

1. Site Identification

- **Date of Report:** September 15, 2022
- **Facility I.D.:** Unknown (no number assigned)
- **UST Incident Number (if known):** Not applicable
- **Site Name:** Alex Economy Property
- **Site Street Address:** 3114 Central Heights Road
- **City/Town:** Goldsboro **Zip Code:** 27534 **County:** Wayne
- **Description of Geographical Data Point (e.g. diesel fill port):** UST location
- **Location method (GPS, topographical map, other):** Google Earth
- **Latitude (decimal degrees):** 35.37810 N **Longitude (decimal degrees):** -77.92601 W

2. Information about Contacts Associated with the Release (Addresses must include street, city, state, zip code and mailing address, if different).

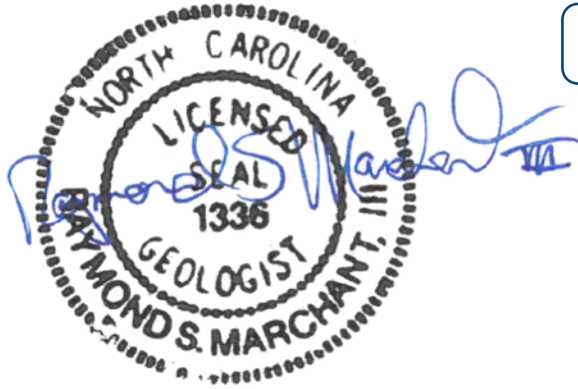
- **UST Owner:** Alex Economy
- **Address:** 3114 Central Heights Road, Goldsboro, North Carolina 27534
Phone: 919-707-6871
- **UST Operator:** Same as UST Owner
- **Address: Phone:** None
- **Property Owner:** Alex Economy
- **Address:** 3114 Central Heights Road, Goldsboro, North Carolina 27534
Phone: 919-707-6871
- **Property Occupant:** Vacant/demolished
- **Address: Phone:** unknown
- **Consultant/Contractor:** Mid-Atlantic Associates, Inc.
- **Address:** 409 Rogers View Court, Raleigh, NC 27610
Phone: (919) 250-9918
- **Analytical Laboratory:** RED Lab State Certification No.: none (UVF Analysis)
- **Address:** 5598 Marvin K Moss Lane, Wilmington, NC 28412
Phone: (910) 508-6270
- **Analytical Laboratory:** Waypoint Analytical Lab, State Certification No. 402
- **Address:** 449 Springbrook Rd., Charlotte, NC 28217
Phone: (704) 529-6364

3. Information about Release

- **Date Discovered:** Not applicable
- **Estimated Quantity of Release:** Not applicable
- **Cause of Release:** Not applicable
- **Source of Release (e.g. Dispenser/Piping/UST):** Not applicable
- **Sizes and Contents of UST(s) (or other containment from which the release occurred):** Not applicable

4. Certification *(The title page must display the seal and signature of the certifying P.E. or L.G. and the name and certification number of the company or corporation, if applicable [See 15A NCAC 2L.0103(e)].)*

I, Raymond S. Marchant, III , a **Licensed Geologist** for Mid-Atlantic Associates, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



DocuSigned by:

2A189A4FB8064F5...

09/19/2022

Mid-Atlantic Associates, Inc. is licensed to practice **geology and engineering** in North Carolina. The certification numbers of the company or corporation are C-186 and F-0967, respectively.

TABLE OF CONTENTS

1.0	SITE HISTORY AND CHARACTERIZATION	1
1.1	<u>Introduction</u>	1
1.2	<u>Owner/Operator of the UST</u>	1
1.3	<u>Property Owner</u>	2
1.4	<u>Facility Information</u>	2
1.5	<u>Contacts</u>	2
1.6	<u>UST Information</u>	2
1.7	<u>Site Characteristics</u>	3
1.8	<u>Scope of Work</u>	3
2.0	UST CLOSURE PROCEDURES	3
2.1	<u>Pre-Closure Procedures</u>	3
2.2	<u>UST System Removal Procedures</u>	4
2.3	<u>Excavated Soil</u>	4
2.4	<u>Sampling Procedures</u>	4
2.5	<u>Quality Control Measures</u>	5
2.6	<u>Investigative Results</u>	5
3.0	SOIL BACKFILL AND COMPACTION	5
4.0	REGULATORY STATUS	5
5.0	SUMMARY, CONCLUSIONS AND RECOMMENDATIONS	5
5.1	<u>Summary</u>	5
5.2	<u>Conclusions</u>	6
5.3	<u>Recommendations</u>	6

DRAWINGS

- Drawing 1 - Topographic Site Map
- Drawing 2 - Site Map with UST System
- Drawing 3 - Sample Location Map

TABLES

- Table 1 - PID Readings and Soil Sampling Results

APPENDICES

- APPENDIX A - Photo Log
- APPENDIX B - UST Section Notification Forms
- APPENDIX C - UST and Liquid Disposal Documentation
- APPENDIX D - Mid-Atlantic Procedures
- APPENDIX E - Soil Sample Laboratory Analytical Reports

LIST OF ACRONYMS

2012 Guidelines	Underground Storage Tank Section Guidelines for Assessment and Corrective Action For UST Releases, DENR, Division of Waste Management UST Section, July 15, 2008 Version, Change 2, Effective October 1, 2012	NA	Not Analyzed
		N/A	Not Applicable
		NC	North Carolina
		NCAC	North Carolina Administrative Code
		NCDEQ	North Carolina Department of Environmental Quality
AFVR	Aggressive Fluid-Vapor Recovery	NCDOT	North Carolina Department of Transportation
AS	Air Sparge	NCGQS	North Carolina Groundwater Quality Standards
AST	Aboveground Storage Tank	NCSWQS	North Carolina Surface Water Quality Standards
BQL	Below (Laboratory Practical) Quantitation Limit	ND	Not Detected
BLS	Below Land Surface	NM	Not Measured
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes	NORR	Notice of Regulatory Requirements
		NOV	Notice of Violation
CAP	Corrective Action Plan	NS	Not Sampled
cm	Centimeter		
COC	Constituents of Concern	ORP	Oxidation-Reduction Potential
CSA	Comprehensive Site Assessment	OVA	Organic Vapor Analyzer
DIPE	Diisopropyl Ether (also IPE: Isopropyl Ether)	PA	Prioritization Assessment
DNAPL	Dense Non-Aqueous Phase Liquids	PAA	Prioritization Assessment Agreement
DO	Dissolved Oxygen	PAH	Polynuclear Aromatic Hydrocarbons
DPE	Dual-Phase Extraction	Pb	Lead
DPT	Direct Push Technology	PCBs	Polychlorinated Biphenyls
DRO	Diesel Range Organics	PCE	Perchloroethylene (also tetrachloroethene)
DSCA	North Carolina Dry-Cleaning Solvent Act	PPB	Parts Per Billion
DTW	Depth to Water	PPM	Parts Per Million
DWM	Division of Waste Management	PID	Photo Ionization Detector
DWQ	Division of Water Quality	POTW	Publicly Owned Treatment Works
		PQL	Practical Quantitation Limit
EDB	Ethylene di-bromide	PRF	Prioritization Ranking Form
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
EPH	Extractable Petroleum Hydrocarbons		
		RBCA	Risk-Based Corrective Action
FID	Flame Ionization Detector	RCRA	Resource Conservation and Recovery Act
FT	Feet	ROI	Radius of Influence
GCL	Gross Contamination Level	s	Seconds
GIS	Geographic Information System	SAR	Soil Assessment Report
GPM	Gallons Per Minute	SOW	Scope of Work
GPS	Global Positioning System	STG	Soil-to-Groundwater
GRO	Gasoline Range Organics	SVE	Soil Vapor Extraction
		SVOC	Semi-Volatile Organic Compound
ID	Identification		
IDW	Investigation Derived Waste	TDHF	Toxicologically Defined Hydrocarbon Fractions
IGQS	Interim Groundwater Quality Standards	TCLP	Toxicity Characteristic Leaching Procedure
		TIC	Tentatively Identified Compound
LSA	Limited Site Assessment	TOC	Top of Casing
LUST	Leaking Underground Storage Tank	TPH	Total Petroleum Hydrocarbons
m	Meter	UFA	Ultraviolet Fluorescence Detector
MADEP	Massachusetts Department of Environmental Protection	US	United States
		USCS	Unified Soil Classification System
Mid-Atlantic	Mid-Atlantic Associates, Inc.	USGS	United States Geological Survey
MDL	Method Detection Limit	UST	Underground Storage Tank
mg/Kg	Milligrams per Kilogram	UT	Unnamed Tributary
mg/L	Milligrams per Liter	VOC	Volatile Organic Compounds
MMP	Minimum Management Practices	VPH	Volatile Petroleum Hydrocarbons
MMPE	Mobile Multi-Phase Extraction	yr	Year
MNA	Monitored Natural Attenuation		
MSCC	Maximum Soil Contaminant Concentration		
MSL	Mean Sea Level		
MTBE	Methyl tertiary butyl ether		
µg/Kg	Micrograms per Kilogram		
µg/L	Micrograms per Liter		

1.0 SITE HISTORY AND CHARACTERIZATION

1.1 Introduction

Mid-Atlantic Associates, Inc. (Mid-Atlantic) has prepared this UST Closure Report in response to the North Carolina Department of Transportation's (NCDOT) Request for Technical and Cost Proposal (RFP) dated April 16, 2021 and in accordance with Mid-Atlantic's "Technical and Cost Proposal for UST Closure dated April 30, 2021. [Please note that this project incurred a substantial delay before initiation due to property acquisition/access issues.] Mid-Atlantic has performed the UST Closure for the Alex Economy Property (Subject Site), located at 3114 Central Heights Road in Goldsboro, North Carolina ([Drawing 1](#)).

NCDOT contracted with Mid-Atlantic to perform the UST closure due to the discovery of multiple USTs during the GeoEnvironmental Phase II Investigation. The UST closure activities are necessary as property acquisition is necessary for NCDOT to conduct roadway improvements along this project. The photo log in [Appendix A](#) documents the execution of the field effort.

The subject site is the Alex Economy Property, located at 3114 Central Heights Road in Goldsboro, North Carolina ([Drawings 1 and 2](#)). The subject site contained the foundation of a former building and a gravel parking lot and driveway, and grass covered landscaping areas. The site historically operated as a vehicle fueling station and convenience store. Two probable 2,000-gallon capacity USTs were identified during a geophysical survey conducted in August 2018. The USTs were located within the proposed utility easement. According to the North Carolina Department of Environmental Quality (NCDEQ), there are no USTs registered in association with this parcel and no incidents are associated with this parcel.

This report presents background information; a summary of the UST removal and closure assessment procedures; the laboratory analytical results; and our findings, conclusions and recommendations. The opinions included herein are based on our experience and the information obtained during the study. This report is based on limited observations made on the dates noted using the procedures described herein. If additional information becomes available, we request the opportunity to review the information, reassess the potential environmental concerns and modify our conclusions and recommendations, if appropriate.

1.2 Owner/Operator of the UST

Alex Economy
3114 Central Heights Road
Goldsboro, North Carolina 27534

1.3 Property Owner

Alex Economy
3114 Central Heights Road
Goldsboro, North Carolina 27534

1.4 Facility Information

Facility ID No: Unknown (no number assigned)

1.5 Contacts

Primary Contact: Craig Haden
North Carolina Department of Transportation
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589
919-707-6871

Closure Contractor: Evo Corporation
1703 Vargrave Street
Winston Salem, North Carolina 27107
Tony Disher
(877) 725-5844

Consultant: Mid-Atlantic Associates, Inc.
409 Rogers View Court
Raleigh, North Carolina 27610
Raymond S. Marchant, III
(919) 250-9918

Laboratory: Rapid Environmental Diagnostics (RED) Lab
5598 Marvin Moss Lane
MARBIONC Building, Suite 2003
Wilmington, North Carolina 28409
Tori Jade
(910) 508-6270

1.6 UST Information

No USTs are listed in NCDEQ's registration database for this parcel. In August 2018, Pyramid Environmental & Engineering, P.C. (Pyramid) identified two probable 2,000-gallon capacity USTs in a geophysical survey report. UST closure activities

conducted on August 18, 2022 verified two 1,000-gallon capacity USTs. The following USTs were closed by removal during this scope of work. Refer to [Drawing 2](#) for the former location of the tanks. Applicable UST information is summarized below.

NCDEQ UST ID Number	Previous Contents	Capacity (Gallons)	Construction Details	Date Installed	Status of UST	Release Associated with System
UST-1	Unknown	1,000	Steel	Unknown	Removed August 18, 2022	No
UST-2	Unknown	1,000	Steel	Unknown	Removed August 18, 2022	No

1.7 Site Characteristics

According to the NCDOT the owner of the site is listed as Alex Economy. The parcel is located on the southern side of Central Heights Road in Goldsboro, North Carolina. The Site currently consists of the foundation of a former building, a gravel parking lot and driveway, and grass covered landscaping areas. The site is boarded by Central Heights Road to the north with agricultural land just beyond; agricultural land also borders the site to the east, and residential homes and trailers border the site to the south and west.

1.8 Scope of Work

Per the NCDOT RFP, the scope of work for this UST Closure is as follows:

- Remove the (2) probable USTs, their contents and associated piping.
- Only excavate soils necessary for the UST removal. Properly dispose of any petroleum-contaminated soils, assume 50 tons of soil.
- The amount of contents in the tanks is unknown, assume 1,000 gallons.
- Collect a groundwater sample if groundwater is encountered.
- Collect confirmatory samples. Collect risk based samples if over excavation is performed.
- Backfill and compact with clean fill material. Cover with ABC stone to match existing driveway.
- On reports and NCDEQ forms attribute UST ownership to former property owner.

2.0 **UST CLOSURE PROCEDURES**

2.1 Pre-Closure Procedures

Prior to the commencement of UST closure activities, several tasks were accomplished in preparation for the UST closure event. Mid-Atlantic personnel submitted a UST-3 Notice of Intent: UST Permanent Closure or Change-In-Service form to NCDEQ on

May 14, 2021. A Health and Safety Plan (HASP) was modified to include the site specific health and safety information necessary for the field activities. North Carolina 811 was contacted to locate all public service lines. Pyramid was subcontracted to locate subsurface utilities and re-mark the UST locations. Evo Corporation (Evo) was subcontracted to evacuate residual fluids, excavate and properly dispose of the USTs, any associated piping, and contaminated soils. The Wayne County Department of Fire Services did not require a permit for the removal of the underground storage tanks. UST Notification forms are located in [Appendix B](#).

2.2 UST System Removal Procedures

The UST Closure commenced on August 18, 2022 with a vacuum truck evacuating the contents of the USTs. A 1,000-gallon mixture of water and petroleum were evacuated from the USTs. The USTs were rendered inert with dry ice. The lower explosive limits (LEL) within each tank were checked with a Four Gas Meter and PID to verify safe removal. On August 18, 2022 the tanks were then completely uncovered and removed from the ground. Once removed, the USTs were confirmed as 1,000-gallon capacity tanks constructed of steel. Both USTs were located within the ROW/PUE. Both USTs were rusted and pitted but no holes were visible.

The USTs were transported off-site for proper disposal. The UST system layout is shown on [Drawing 2](#). The Disposal Certificates are located in [Appendix C](#).

2.3 Excavated Soil

During excavation activities, soils were screened for the presence of volatile organic compounds (VOCs) using a MiniRae 3000 Photo Ionization Detector (PID). Soils consisted predominantly of dark brown silty sand and did not indicate a release had occurred. Consequently the excavated soils were placed on a polyethylene liner during the excavation activities to be used as clean backfill after sampling activities were completed.

2.4 Sampling Procedures

Upon removal, UST closure samples were collected according to procedures outlined in the NCDEQ's *Underground Storage Tank Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases (May 17, 2021)*. Tank pit samples were collected at the locations shown in [Drawing 2](#).

Soil samples collected on August 18, 2022 were selected for laboratory analysis using ultraviolet fluorescence (UVF) methodology. The soil samples were collected in accordance with NCDEQ guidelines: two samples from directly beneath the mid-line location of each of the former USTs; beneath the fuel lines at approximate 10-foot intervals or under fittings and turns; and beneath the former dispenser locations. Following sample collection, Mid-Atlantic placed the samples directly into

laboratory-provided bottles and shipped to RED Lab in Wilmington, NC for analysis. The UVF analysis includes total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO), benzene, toluene, ethylbenzene, and xylenes (BTEX), total aromatics, and 16 EPA polycyclic aromatic hydrocarbons (PAHs). Soil samples were collected in accordance with the procedures outlined in [Appendix D](#).

2.5 Quality Control Measures

The UST closure soil samples were retrieved using the excavator bucket with care being taken so that sampled soil did not have contact with the bucket. New nitrile gloves were worn during the collection and handling of soil samples. Soil samples were collected in accordance with the procedures outlined in [Appendix D](#).

2.6 Investigative Results

As documented in UVF generated tables and chromatographs located in [Appendix E](#) and summarized (along with PID readings) in [Table 1](#), soil sample concentrations did not exceed the NCDEQ Action Level of 50 mg/Kg for TPH GRO or 100 mg/kg for TPH DRO.

3.0 **SOIL BACKFILL AND COMPACTION**

After removal of the two 1,000 gallon capacity USTs and collection of closure samples, the tank excavations were backfilled. This was accomplished by using both clean overburden and clean imported soil, which was placed in 12 inch lifts and compacted to land surface. Compaction was done with a combination of excavator bucket tamping and running over the soil with the excavator tracks.

4.0 **REGULATORY STATUS**

Mid-Atlantic completed a copy of the *UST-2B* form, *Site Investigation Report for Permanent Closure or Change in Service of Un-Registered UST* on August 18, 2022. A copy of this document is included in [Appendix B](#).

The soil samples collected during this UST system closure did not indicate evidence of a release. Therefore, it appears that no further action is required.

5.0 **SUMMARY, CONCLUSIONS AND RECOMMENDATIONS**

5.1 Summary

- Two 1,000-gallon capacity USTs were removed during closure activities. Closure soil samples were collected from beneath the tanks;
- Closure soil samples were collected from beneath two fuel lines, fuel line fittings, and former dispenser locations;

- Both of the 1,000-gallon capacity USTs contained residual fuel/petroleum-impacted fluids. A total of 1,000 gallons of fluids were evacuated during UST closure activities; and
- The USTs were corroded and pitted but no obvious holes were visible..

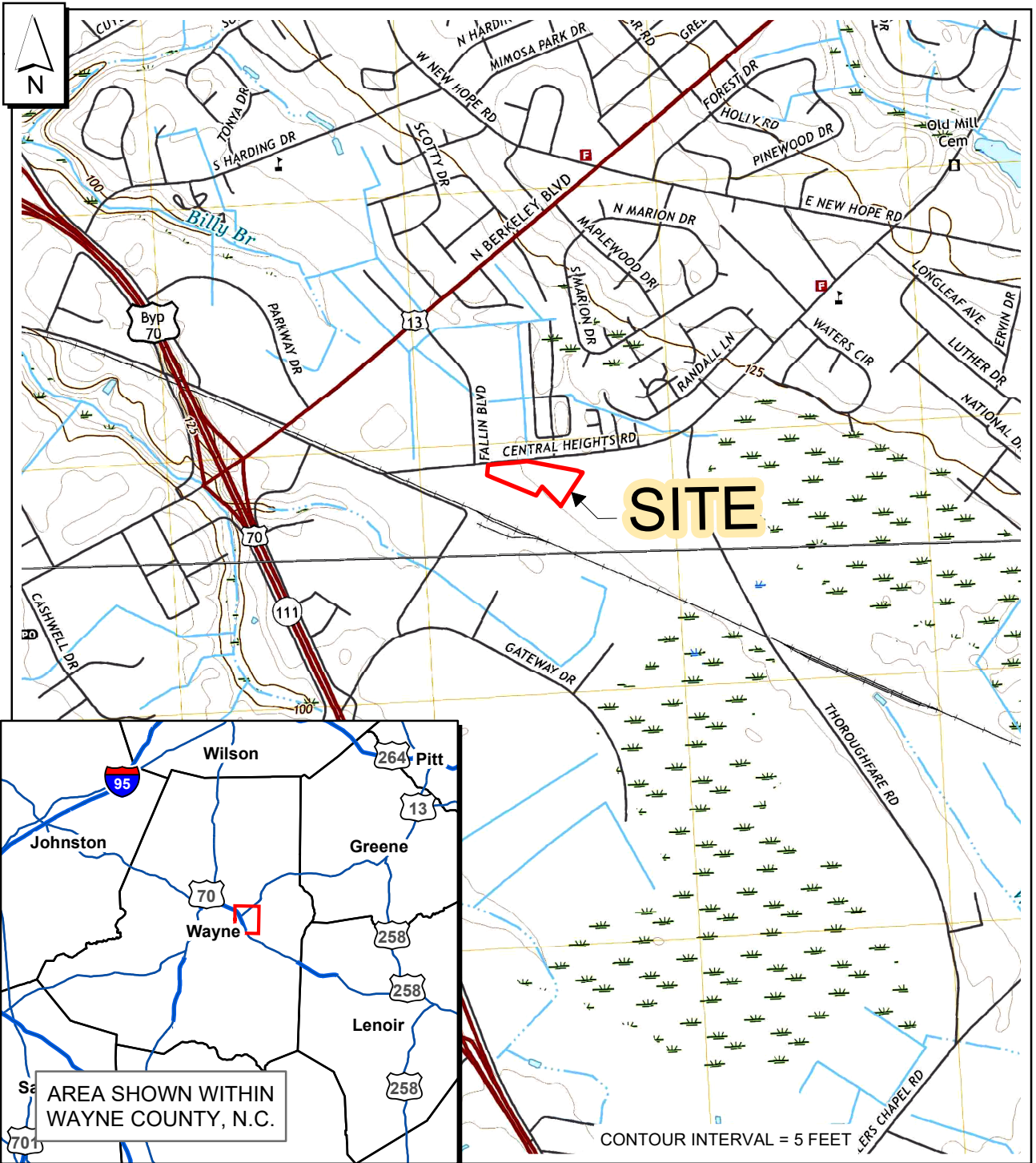
5.2 Conclusions

- Laboratory analytical results indicated that closure soil samples did not exhibit TPH-GRO or TPH-DRO concentrations above the NCDEQ's action levels of 50 mg/kg and 100 mg/kg, respectively; and
- Since soil does not exceed the NCDEQ Action Levels, no further action should be required for the UST system.

5.3 Recommendations

- Submittal of this report to the NCDEQ, UST Section, Washington Regional Office for their review.

DRAWINGS



REFERENCES:

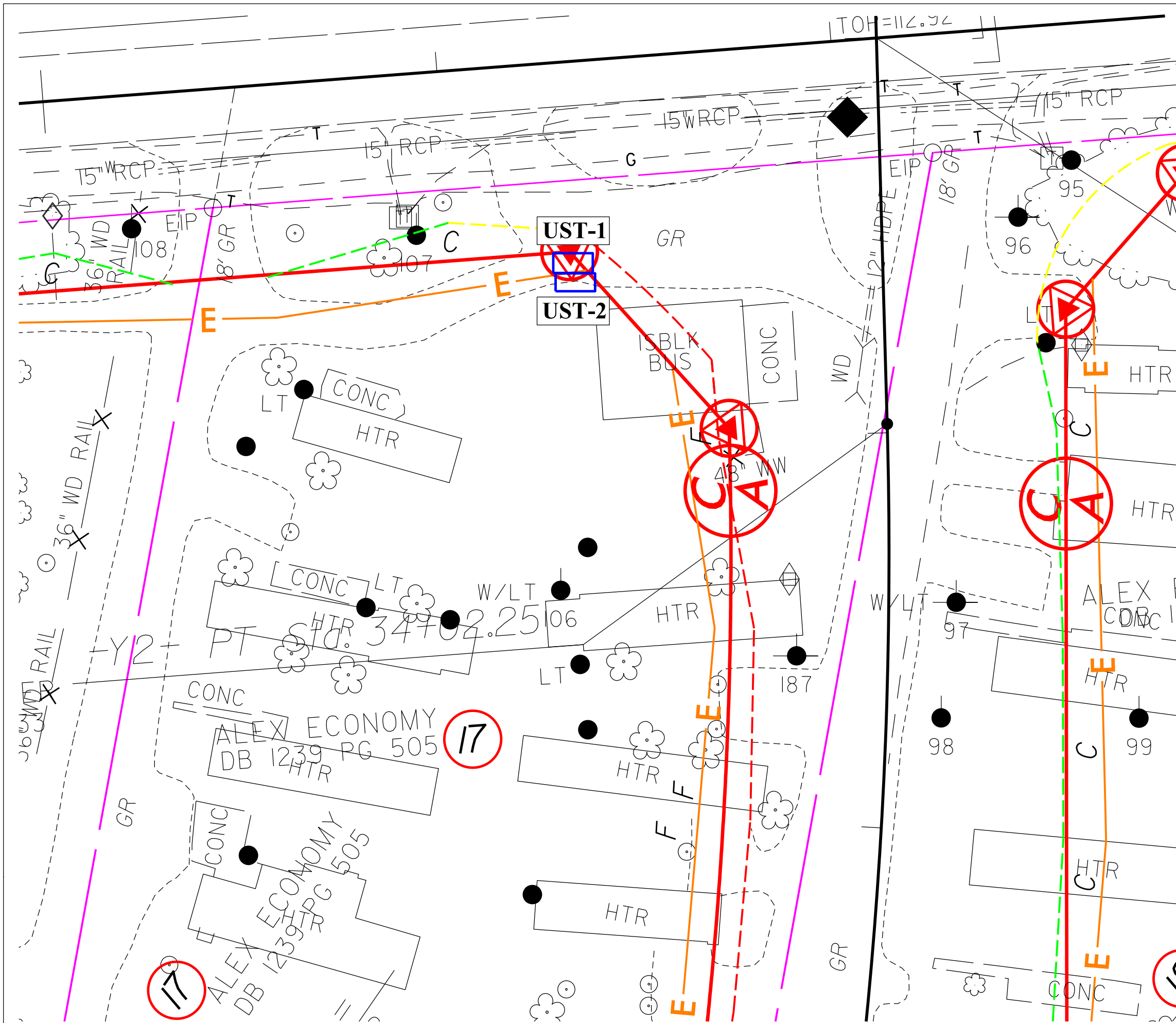
1. NORTHEAST GOLDSBORO, NC AND SOUTHEAST GOLDSBORO, NC DIGITAL RASTER GRAPHICS, USGS, SCANNED FROM 1:24,000-SCALE WAYNE COUNTY, NC TOPOGRAPHIC MAPS, PUBLISHED 2019, USGS.
2. PROPERTY BOUNDARY FROM WAYNE COUNTY GIS.
3. INSET MAP DATA DOWNLOADED FROM ARCGIS ONLINE.

SCALE = 1:24,000



TOPOGRAPHIC SITE MAP
 PARCEL 17
 3114 CENTRAL HEIGHTS ROAD
 GOLDSBORO, NORTH CAROLINA

DRAWN BY: <i>JMT</i>	DATE: AUGUST 2022
DRAFT CHECK: TLH	JOB NO: 000R3203.02
ENG. CHECK:	GIS NO: 07G-000R3203.02-01
APPROVAL: GDI	DWG NO: 1



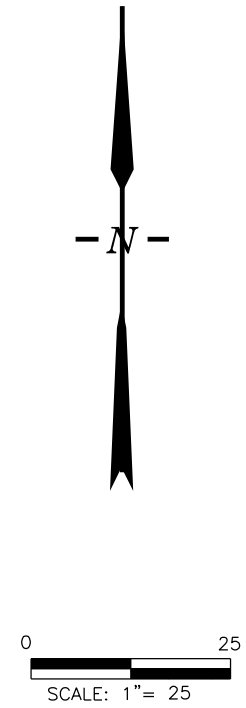
LEGEND

- EXISTING ROW
- EXISTING PROPERTY BOUNDARY
- PROPOSED ROW LINE
- SLOPE STAKE CUT LINE
- SLOPE STAKE FILL LINE
- KNOWN UST (REMOVED)

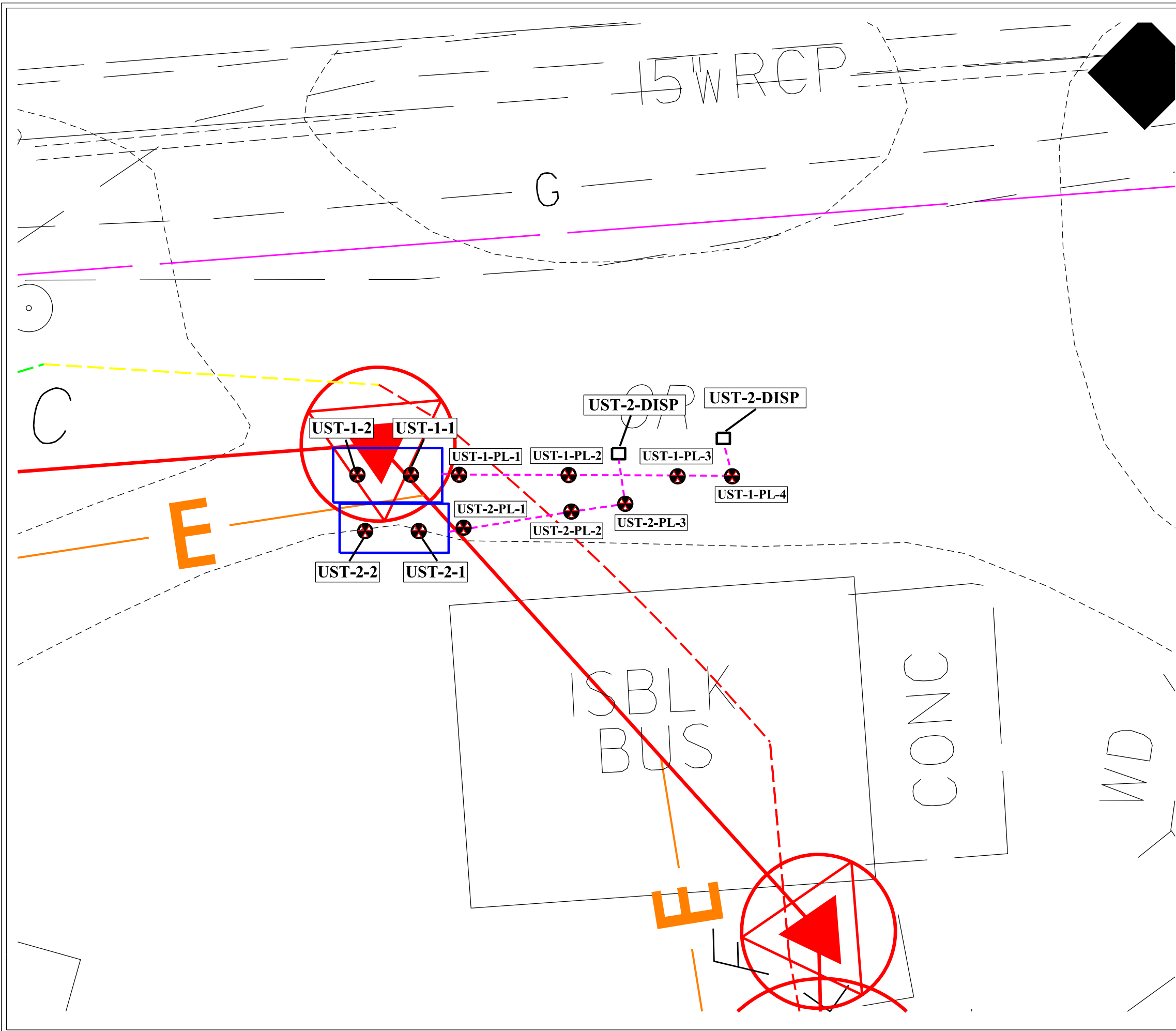
DRAWN BY:	DATE: AUGUST 2022
DRAFTING CHECK BY:	JOB NO: 022R4153
ENGINEER CHECK BY:	CAD # FIGURE 1.2
APPROVED BY:	DWG NO: 2

SITE MAP WITH UST SYSTEM
 NCDOT PROJECT U-5724
 3114 CENTRAL HEIGHTS ROAD
 PARCEL 17
 GOLDSBORO, NC

Mid Atlantic
 Engineering & Environmental Solutions



REFERENCE: NCDOT MICROSTATION (FS, HYD_DRN, ROW, SS)



LEGEND

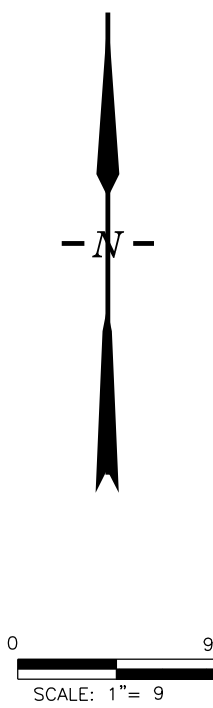
- EXISTING ROW
- EXISTING PROPERTY BOUNDARY
- PROPOSED ROW LINE
- SLOPE STAKE CUT LINE
- SLOPE STAKE FILL LINE
- KNOWN UST (REMOVED)
- PRODUCT LINE (REMOVED)
- FORMER DISPENSER & SAMPLE LOCATION
- SAMPLE LOCATION

DRAWN BY:	DATE: AUGUST 2022	JOB NO: 022R4153	DWG NO: 1.3
DRAFTING CHECK BY:	ENGINEER CHECK BY:	CAD # FIGURE 1.2	
APPROVED BY:			

SAMPLE LOCATION MAP
 NCDOT PROJECT U-5724
 3114 CENTRAL HEIGHTS ROAD
 PARCEL 17
 GOLDSBORO, NC

Mid Atlantic

Engineering & Environmental Solutions



REFERENCE: NCDOT MICROSTATION (FS, HYD_DRN, ROW, SS)

TABLES

**TABLE 1
PID READINGS AND SOIL SAMPLING RESULTS
ALEX ECONOMY PROPERTY (PARCEL 17)
NCDOT: U-5724 3114 CENTRAL HEIGHTS RD. UST CLOSURE
ROCKY MOUNT, NORTH CAROLINA
MID-ATLANTIC JOB NO. 022R4153.00**

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FEET BLS)	PID FIELD SCREENING (PPM)	TPH GRO (C5 - C10) MG/KG	TPH DRO (C10 - C35) MG/KG
P17-UST-1--1	8/1/2022	6'	4.7	<0.46	3.4
P17-UST-1-2	8/1/2022	6'	6.4	<0.42	0.42
P17-UST-2-1	8/1/2022	6'	25.1	<0.2	0.25
P17-UST-2-2	8/1/2022	6'	6.0	<0.37	0.37
P17-UST-1--PL-1	8/1/2022	2.5'	0.0	<0.44	6.3
P17-UST-1-PL-2	8/1/2022	2.5'	0.0	<0.37	0.37
P17-UST-1-PL-3	8/1/2022	4'	0.0	<0.47	0.71
P17-UST-1-DISP	8/1/2022	4'	24.6	<0.41	1.7
P17-UST-1-PL-4	8/1/2022	4'	0.0	<0.37	0.38
P17-UST-2-PL-1	8/1/2022	4'	0.0	<0.44	5.2
P17-UST-2-PL-2	8/1/2022	4'	0.0	<0.41	0.41
P17-UST-2-PL-3	8/1/2022	4'	0.0	1.3	0.49
P17-UST-2-DISP	8/1/2022	2'	1.9	<0.39	0.54

Notes:

TPH-GRO in Soil Action Level = 50 mg/Kg
 TPH-DRO in Soil Action Level = 100 mg/Kg
 PID = Photo Ionization Detector
 BLS - Below Land Surface
 PPM - Parts per million
 MG/KG - milligrams per kilogram (ppm)

APPENDIX A - PHOTO LOG



Photograph 1 – View of site prior to UST closure activities.



Photograph 2 – View of excavator removing the overburden.



Photograph 3 – Vacuum truck evacuating the contents of the USTs.



Photograph 4 – Dry ice being added to the USTs prior to checking the LEL and oxygen levels.



Photograph 5 – The 1,000-gallon capacity UST being positioned so the bottom can be inspected for holes.



Photograph 6 – Removing the 2nd 1,000-gallon capacity UST to be hauled off for disposal.



Photograph 7 – View of fuel lines being uncovered prior to sampling.



Photograph 8 – Backfilling and grading with clean soil.

APPENDIX B - UST SECTION NOTIFICATION FORMS

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

STATE USE ONLY

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Also send a copy to the Central Office in Raleigh. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return a UST-3 form at least **thirty (30) days** prior to closure or change-in-service activities.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2A and/or 2B forms, 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. Note: Tank fees may be due for unregistered tanks.

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 <https://deq.nc.gov/about/divisions/waste-management/ust>. 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 OF TANKS

II. LOCATION

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Alex Economy - Bobby Denning		Facility Name or Company Alex Economy		
Street Address 3114 Central Heights Rd		Facility ID # (If known) none		
City Goldsboro	County Wayne	Street Address 3114 Central Heights Rd		
State NC	Zip Code 27534	City Goldsboro	County Wayne	Zip Code 27534
Phone Number 919-658-8745	Email	Phone Number		

III. CONTACT PERSONNEL

Name: Craig Haden	Company Name: NCDOT	Job Title: GeoEnvironmental Project Mgr	Phone Number: 919-707-6871
----------------------	------------------------	--------------------------------------------	-------------------------------

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Contact local fire marshal. | 5. Provide a sketch locating piping, tanks and soil sampling locations. | a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required. |
| 2. Plan entire closure event. | 6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation. | |
| 3. Conduct Site Soil Assessment. | 7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of | |
| 4. If removing tanks or closing in place, refer to API Publication 2015 <i>Cleaning Petroleum Storage Tanks</i> and 1604 <i>Removal and Disposal of Used Underground Petroleum Storage Tanks</i> . | 8. Keep closure records for three (3) years. | |

V. WORK TO BE PERFORMED BY

Contractor Name: Tony Disher		Contractor Company Name: Evo Corporation		
Address: 1703 Vargrave Street		State: NC	Zip Code: 27107	Phone No: 877-725-5844
Primary Consultant Name: Raymond Marchant, III, P.G.		Primary Consultant Company Name: Mid-Atlantic Associates, Inc.		Consultant Phone No: 919-250-9918

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Closure		Change-In-Service New Contents Stored
			Removal	Abandonment in Place *	
1	est. 2,000	unknown - likely gasoline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	est. 2,000	unknown - likely gasoline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

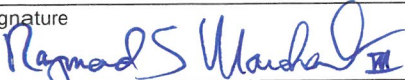
* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Has a release from a UST system occurred at this location? Yes No Unknown

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Raymond S. Marchant, III, Project Mgr for Mid-Atlantic Assoc. for NCDOT

Signature 	Date Signed 5/14/21	SCHEDULED REMOVAL DATE 6/22/2021	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
--------------------------------------------------------------------------------------------------	------------------------	-------------------------------------	---------------------------------------------------------------------------------------------

UST-2B

Site Investigation Report for Permanent Closure or Change-in-Service of UN-REGISTERED UST



Return completed form to: NC DEQ / DWM / UST SECTION 1646 MAIL SERVICE CENTER RALEIGH, NC 27699-1646 ATTN: REGISTRATION & PERMITTING phone (919) 707-8171 fax (919) 715-1117 http://www.wastenotnc.org/	STATE USE ONLY: Facility ID # Date Received
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------

INSTRUCTIONS (READ THIS FIRST)

- UST permanent closure or change in service must be completed in accordance with the latest version of the Guidelines for Site Checks, Tank Closure and Initial Response and Abatement. The guidelines can be obtained at <http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section>.
- Permanent closure: Complete all sections of this form.
- 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.
- For more than 5 un-registered UST systems, attach additional forms as needed.
- Un-Registered USTs may be subject to unpaid fees and late penalties.**
- REGISTERED USTs use Form UST-2A.

I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS			
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Alex Economy - Bobby Denning		Facility Name or Company Alex Economy			
Street Address 3114 Central Heights Rd		Facility ID # (If known) None			
City Goldsboro	County Wayne	Street Address 3114 Central Heights Rd			
State NC	Zip Code 27534	City Goldsboro	County Wayne	Zip Code 27534	
Phone Number 919-658-8745		Phone Number Unknown			

III. CONTACT PERSONNEL			
Contact for Facility: Craig Haden		Job Title: GeoEnviromental PM	Phone #: 919-707-6871
Closure Contractor Name: Tony Disher	Closure Contractor Company: Evo Corp.	Address: 1703 Vargrave St.	Phone #: 877-725-5844
Primary Consultant Name: Troy L. Holzschuh	Primary Consultant Company: Mid-Atlantic Associates	Address: 409 Rogers View Ct	Phone #: 919-250-9918

IV. UST INFORMATION FOR UN-REGISTERED UST SYSTEMS REGISTERED USTs use Form UST-2A.							V. EXCAVATION CONDITION					
Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
1	1000	Unknown		8-18-2022	Removed		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	1000	Unknown		8-18-2022	Removed		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. CERTIFICATION	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.	
Print name and official title of owner or owner's authorized representative Troy L. Holzschuh	
Signature 	Date Signed 8-18-2022

APPENDIX C - UST AND LIQUID DISPOSAL DOCUMENTATION



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

TANK DISPOSAL CERTIFICATE

Tank Owner: NCDOT

Site Address: 3114 Central Heights Rd.
Goldsboro, NC

Description of Tanks:

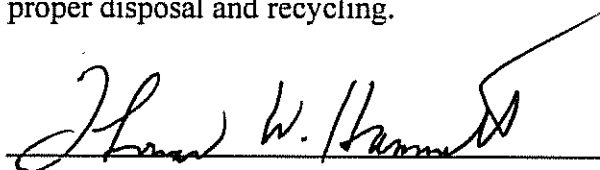
<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	1,000 Gallons	Gasoline
2	1,000 Gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 082106

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.



Signature

Thomas W. Hammett
CEO
Evo Corporation



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1,000 gallons of non-hazardous contaminated water received on 8/18/2022 from:

Generator: NCDOT

Originating at: 3114 Central Heights Rd.
Goldsboro, NC

EC Waste ID #: 082106

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

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

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. **15331**

GENERATOR INFORMATION

Generator: **NCDOT**
Site Address: **3114 Central Heights Rd**
City/State: **Goldsboro, NC**

Phone: **919-707-6871**
Contact: **Craig Haden**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____
Empty Weight (lbs): _____
Net Weight (lbs): _____

Material: **Water**
Contaminant: **Petroleum**

Quantity

1000

Tons Drums Pails Sacs Yards Other **CS**

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**
Truck #: **402**

Phone: **336-725-5844**
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: *Haley Addison*

Date: **8/18/22**

FACILITY INFORMATION

Evo Corporation
1703 Vargrave St.
Winston-Salem, NC 27107

Evo Project #: **082106**
Phone: **336-725-5844**
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: *Tony Disher*

Date: **08-18-2022**

White/Facility

Canary/Invoice

Pink/Carrier

APPENDIX D - MID-ATLANTIC PROCEDURES

Soil Sampling Procedures

I. Sample Collection

Direct Push Technology (DPT, or “Geoprobe”)

DPT uses a truck-mounted hydraulic rig to push a steel sampling probe into the subsurface to collect soil and/or groundwater samples. The sampling device used to collect the soil samples during this investigation was the “macrocore” sampler. This sampler consists of a four-foot long, two-inch diameter stainless steel spoon containing a clear, acetate liner. When the macrocore sampler is driven into the subsurface, the soil is collected into the acetate liner and then retrieved to the land surface. The liner is then cut open and the soil lithology is characterized and soil samples are collected.

Split Spoon Sampling

This method of soil sampling is typically used during advancement of hollowstem augers for the construction of monitoring wells. Soil samples are obtained from the borings by driving a prewashed, 1-3/8-inch inner-diameter split-spoon sampler at five foot intervals to termination in general accordance with ASTM D-1586 (Standard Penetration Test) specifications. Blow counts for each six inches of split-spoon penetration are recorded during advancement of the spoon. Samples are then retrieved to the land surface, the split-spoon is opened, and the soil lithology is characterized and soil samples are collected.

Hand Augering

This method is typically used for shallow sampling in areas where access is limited or underground obstacles such as utilities may be present. A pre-washed, three-inch diameter steel auger bucket is attached to extension rods and manually turned to penetrate the subsurface to the desired sampling depth. Samples are then retrieved to the land surface and the soil lithology is characterized and soil samples are collected directly from the hand auger bucket.

Excavator Bucket Sampling

This method is typically used during UST excavation and soil excavation projects. The soil samples are collected from the excavator bucket when it is not safe to collect the samples by other means. Care is taken when collecting samples from the bucket to avoid soil that has come in contact with the bucket itself to avoid cross contamination.

II. Headspace Field Screening

A portion of each sample is removed from the sampling device and placed in a pre-labeled, plastic "ziploc" bag. After several minutes, the gas contained in the "headspace" or void area within the bag is tested with a photoionization detection (PID) and/or Flame Ionization Detector (FID). These are useful as scanning devices to detect the presence of volatile organic compounds (VOCs) but are not relied upon to determine specific levels of contamination. Typically, the samples exhibiting the highest headspace readings will be submitted to the laboratory for analysis.

III. Preparation for Laboratory Analysis

The sample collector dons new nitrile sampling gloves prior to handling each sample. The samples are placed into laboratory-prepared, pre-labeled, sampling containers, packed in ice, and shipped to a certified laboratory under chain-of-custody control. The sampler places an executed custody seal on the cooler prior to leaving the sampler's custody. Laboratory analyses to be performed on the samples, along with other sampling information, are specified on the chain-of-custody, which is placed in the cooler with the samples.

APPENDIX E - SOIL SAMPLE LABORATORY ANALYTICAL REPORTS



Hydrocarbon Analysis Results

Client: MID-ATLANTIC ASSO.
Address: 409 ROGERS VIEW CT.
 RALEIGH, NC

Samples taken
Samples extracted
Samples analysed

Thursday, August 18, 2022
 Thursday, August 18, 2022
 Wednesday, August 24, 2022

Contact: TROY HOLZSCHUH

Operator

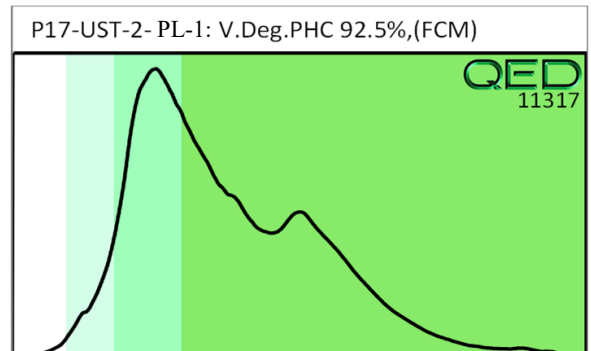
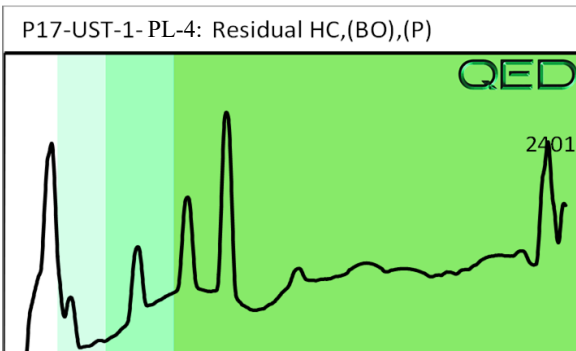
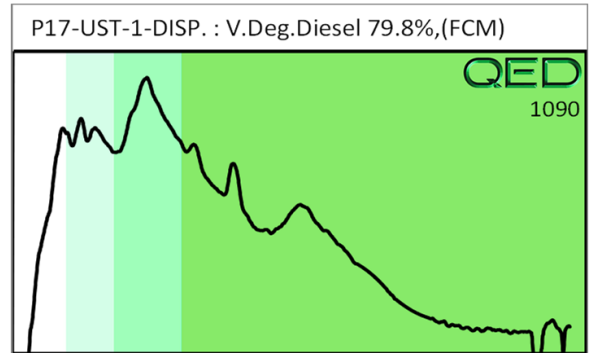
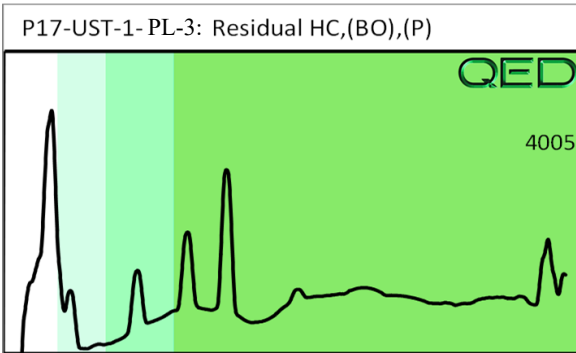
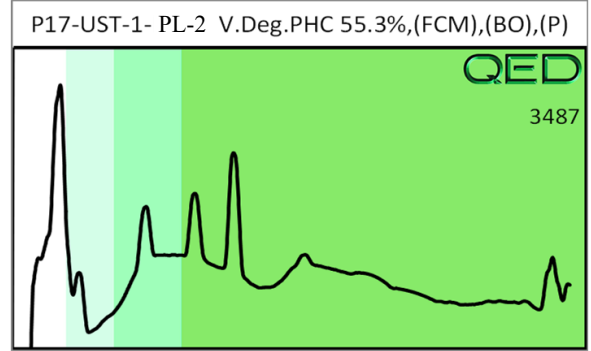
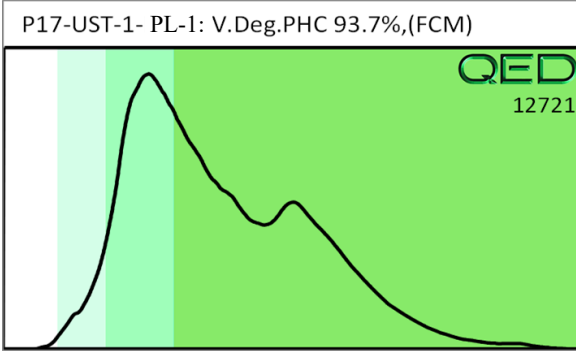
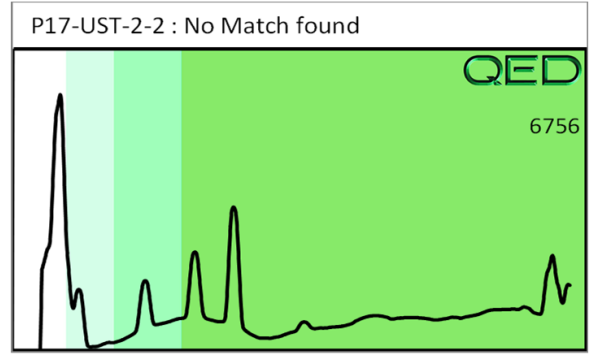
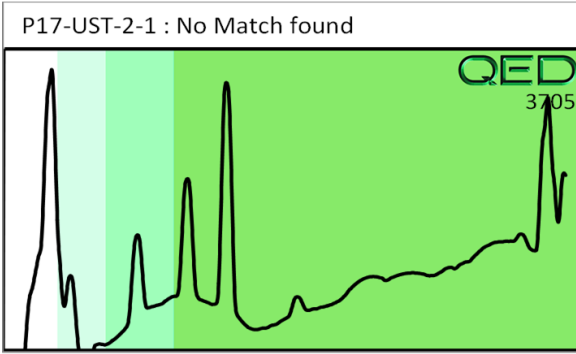
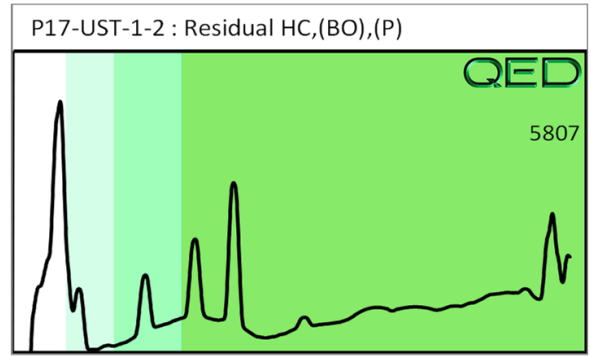
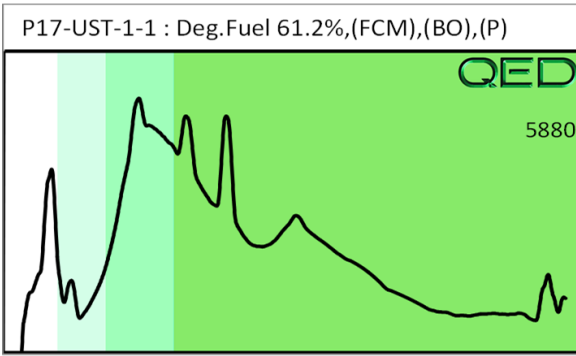
CLAIRE NAKAMURA

Project: NCDOT PARCEL 17

													T03308
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			HC Fingerprint Match
										% light	% mid	% heavy	
s	P17-UST-1-1	18.6	<0.46	<0.46	3.4	3.4	1.3	<0.15	<0.019	0	70.1	29.9	Deg.Fuel 61.2%,(FCM),(BO),(P)
s	P17-UST-1-2	16.9	<0.42	<0.42	0.42	0.42	0.23	<0.13	<0.017	0	61.5	38.5	Residual HC,(BO),(P)
s	P17-UST-2-1	7.8	<0.2	<0.2	0.25	0.25	0.24	<0.06	<0.008	0	62.8	37.2	No Match found
s	P17-UST-2-2	14.6	<0.37	<0.37	0.37	0.37	0.21	<0.12	<0.015	0	66.3	33.7	No Match found
s	P17-UST-1-PL-1	17.6	<0.44	<0.44	6.3	6.3	2.9	<0.14	<0.018	0	75.7	24.3	V.Deg.PHC 93.7%,(FCM)
s	P17-UST-1-PL-2	14.7	<0.37	<0.37	0.37	0.37	0.28	<0.12	<0.015	0	62.2	37.8	V.Deg.PHC 55.3%,(FCM),(BO),(P)
s	P17-UST-1-PL-3	18.8	<0.47	<0.47	0.71	0.71	0.67	<0.15	<0.019	0	53.7	46.3	Residual HC,(BO),(P)
s	P17-UST-1-DISP.	16.6	<0.41	<0.41	1.7	1.7	0.65	<0.13	<0.017	0	72.7	27.3	V.Deg.Diesel 79.8%,(FCM)
s	P17-UST-1-PL-4	15.4	<0.38	<0.38	0.38	0.38	0.42	<0.12	<0.015	0	50.4	49.6	Residual HC,(BO),(P)
s	P17-UST-2-PL-1	17.6	<0.44	<0.44	5.2	5.2	2.5	<0.14	<0.018	0	76.4	23.6	V.Deg.PHC 92.5%,(FCM)
Initial Calibrator QC check			OK		Final FCM QC Check					OK		96.9 %	

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present





Hydrocarbon Analysis Results

Client: MID-ATLANTIC ASSO.
Address: 409 ROGERS VIEW CT.
 RALEIGH, NC

Samples taken
Samples extracted
Samples analysed

Thursday, August 18, 2022
 Thursday, August 18, 2022
 Wednesday, August 24, 2022

Contact: TROY HOLZSCHUH

Operator

CLAIRE NAKAMURA

Project: NCDOT PARCEL 17

										T03308			
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			HC Fingerprint Match
										% light	% mid	% heavy	
s	P17-UST-2-PL-2	16.6	<0.41	<0.41	0.41	0.41	0.22	<0.13	<0.017	0	53.3	46.7	Residual HC,(BO),(P)
s	P17-UST-2-PL-3	19.5	<0.49	1.3	0.49	1.79	0.45	<0.16	<0.02	86.9	8.9	4.3	Deg.PHC 90.4%,(FCM)
s	P17-UST-2-DISP.	15.7	<0.39	<0.39	0.54	0.54	0.28	<0.13	<0.016	0	57.3	42.7	Deg.PHC 48.8%,(FCM),(BO),(P)
Initial Calibrator QC check										OK			96.7 %
Final FCM QC Check										OK			96.7 %

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
 Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library
 (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present

