PROJECT SPECIAL PROVISIONS GEOENVIRONMENTAL

CONTAMINATED SOIL (6/13/2023)

The Contractor's attention is directed to the fact that soil contaminated with petroleum hydrocarbon compounds may exist within the project area. Information relating to these contaminated areas, sample locations, and investigation reports will be available at the following web address by navigating to the correct letting year and month then selecting, "Plans and Proposals", "R-5808", "Individual Sheets/520 GeoEnvironmental":

http://dotw-xfer01.dot.state.nc.us/dsplan/

Petroleum contaminated soil may be encountered during any earthwork activities on the project. The Contractor shall only excavate those soils that the Engineer designates necessary to complete a particular task. The Engineer shall determine if soil is contaminated based on areas shown on the plans, petroleum odors, and unusual soil staining. Contaminated soil not required to be excavated is to remain in place and undisturbed. Undisturbed soil shall remain in place, whether contaminated or not. The Contractor shall transport all contaminated soil excavated from the project to a facility licensed to accept contaminated soil.

In the event that a stockpile is needed, the stockpile shall be created within the property boundaries of the source material and in accordance with the Diagram for Temporary Containment and Treatment of Petroleum-Contaminated Soil per North Carolina Department of Environmental Quality's (NCDEQ) Division of Waste Management UST Section GUIDELINES FOR EX SITU PETROLEUM CONTAMINATED SOIL REMEDIATION. If the volume of contaminated material exceeds available space on site, the Contractor shall obtain a permit from the NCDEQ UST Section's Regional Office for off-site temporary storage. The Contractor shall provide copies of disposal manifests completed per the disposal facilities requirements and weigh tickets to the Engineer.

Measurement and Payment:

The quantity of contaminated soil hauled and disposed of shall be the actual number of tons of material, which has been acceptably transported and weighed with certified scales as documented by disposal manifests and weigh tickets. The quantity of contaminated soil, measured as provided above, shall be paid for at the contract unit price per ton for "Hauling and Disposal of Petroleum Contaminated Soil".

The above price and payment shall be full compensation for all work covered by this section, including, but not limited to stockpiling, loading, transportation, weighing, laboratory testing, disposal, equipment, decontamination of equipment, labor, and personal protective equipment.

Payment shall be made under:

Pay Item

Hauling and Disposal of Petroleum Contaminated Soil



UST CLOSURE AND INITIAL ABATEMENT ACTION REPORT

R-5808 UST Closure William Jordon Jr., Carlease Jackson, & Vera Jordan Ball Property, Parcel #007, WBS# 46972.1.2 US HWY 158 and Acorn Hill Road, Sunbury, Gates County, North Carolina, 27979

Schnabel Project No. 23290032.001 November 28, 2023





November 28, 2023

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 and Initial Abatement Action ReportUS Highway 158 and Acorn Hill Road, Sunbury, Gates County, North CarolinaSchnabel Project No. 23290032.001

Dear Ms. Hunneke:

SCHNABEL ENGINEERING SOUTH, P.C. is pleased to submit the enclosed UST Closure Report for the William Jordon Jr., Carlease Jackson, and Vera Jordan Ball Property located at the intersection of US Highway 158 and Acorn Hill Road in Sunbury, North Carolina. This report includes tables, figures, and appendices with relevant data collected for this study. This study was performed in accordance with our proposal dated September 19, 2023, as authorized by Matt Alexander on September 19, 2023.

We appreciate the opportunity to be of service for this project. Please call us if you have any questions regarding this report.

Sincerely,

SCHNABEL ENGINEERING SOUTH, P.C.

Lisa Kowalczyk, EIT Senior Staff Engineer

Jacob Wessell, PE Associate Engineer

LK: JW

Distribution:

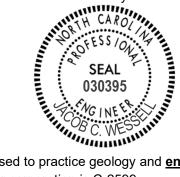
NCDOT Geotechnical Engineering Unit Attn: Craig Haden, Geoenvironmental Project Manager NC Department of Transportation, Geotechnical Engineering Unit R5808 UST Closure

- A. Site Information 1. Site Identification Date of Report: November 17, 2023 Facility I.D.: N/A Incident Number: N/A Site Name: William Jordon Jr., Carlease Jackson, & Vera Jordan Ball Property Site Street Address: US Highway 158 and Acorn Hill Road City/Town: Sunbury Zip Code: 27979 County: Gates Description of Geographical Data Point (e.g., dispenser): UST Location Location Method (GPS, topographical map, other): Google Earth Latitude (decimal degrees): 36.442633 Longitude (decimal degrees): -76.546536 2. Information about Contacts Associated with the Release (Addresses must include street, city, state, zip code and mailing address, if different) UST/AST Owner: William Jordon Jr., Carlease Jackson, & Vera Jordan Ball Address: 5809 47TH AVE NW, Rochester, Minnesota, 55901 Tel: N/A **UST/AST Operator:** Not in Operation Address: N/A Tel: N/A Property Owner: William Jordon Jr., Carlease Jackson, & Vera Jordan Ball Address: 5809 47TH AVE NW, Rochester, Minnesota, 55901 Tel: N/A Property Occupant: Not Applicable Consultant/Contractor: Schnabel Engineering South, P.C. Address: 1133 Military Cutoff Road, Wilmington, NC 28405 Tel: (910) 769-1621 Analytical Laboratory: Pace Analytical State Certification No. 5342 Address: 9800 Kincey Ave. Ste 100, Huntersville, NC 28078 Tel: (704)875-9092 3. Information about Release Date Discovered: October 17, 2023 Estimated Quantity of Release: Unknown Cause of Release: Corrosion Source of Release: USTs Sizes and Contents of Tank or Other Containment from which the Release Occurred:
 - One (1) approximately 1,000-gallon and two (2) approximately 550-gallon capacity USTs and minimal gas lines.
 - 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 [See 15A NCAC 2L .0103(e).]*)

I, Jacob Wessell, a Professional Engineer for Schnabel Engineering South, P.C., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

DocuSigned by: & Menel -676F8AF1578B46F

11/29/2023 Jacob C. Wessell, PE NC PE License No. 030395



Schnabel Engineering South, P.C. is licensed to practice geology and **<u>engineering</u>** in North Carolina. The certification number of the company or corporation is C-2599.

UST CLOSURE AND INITIAL ABATEMENT ACTION REPORT R5808 UST CLOSURE WILLIAM JORDON JR., CARLEASE JACKSON, & VERA JORDAN BALL PROPERTY SUNBURY, GATES COUNTY, NORTH CAROLINA

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1.0 SITE HISTORY AND CHARACTERIZATION

1.1 Introduction

Schnabel Engineering South, P.C. (Schnabel) has prepared this UST Closure and Initial Abatement Action Report in response to the North Carolina Department of Transportation's (NCDOT) Request for Technical and Cost Proposal (RFP), dated September 7, 2023 and in accordance with Schnabel's "Proposal for UST Closure and Soil Excavation Activities", dated September 19, 2023. Schnabel has performed the UST closure activities for the William Jordon, Jr., Carlease Jackson, and Vera Jordan Ball Property, located at the intersection of US Highway 158 and Acorn Hill Road in Sunbury, Gates County, North Carolina (Figure 1).

Schnabel conducted a geophysical investigation of the subject property on behalf of the NCDOT on July 25, 2023. Schnabel identified multiple anomalies during that investigation which indicated the presence of UST on the subject property. The UST closure activities are required as property acquisition is necessary for NCDOT to conduct roadway improvements along this project. A photo log of UST excavation and closure activities are documented in Appendix F.

No previous documentation is available regarding historic operations related to the USTs removed from the subject property. Three (3) USTs were located on the subject property. Tank 1 is approximately 1000-gallons in capacity and Tank 2 and Tank 3 are each approximately 550-gallons in capacity. It is assumed, given the UST locations on the corner, highway-adjacent property, that a previous small commercial fueling station was once operated at the site. Currently no operations or occupancy occurs at the subject property. None of the USTs at the subject property were listed in the NCDEQ UST database, and no additional information is available on the installation dates of the USTs.

Schnabel has provided this report which presents known site background information, summarizes the UST closure procedures and efforts, soil sampling efforts, laboratory analytical results, and Schnabel's findings, conclusions, and recommendations.

1.2 Owner/Operator of the UST

UST Owners

William Jordon, Jr., Carlease Jackson, and Vera Jordan Ball 5809 47th Avenue NW Rochester, Minnesota, 55901

<u>UST Operator</u> Not in Current Operation – Historic Operator Unknown

1.3 Property Owner

William Jordon, Jr., Carlease Jackson, and Vera Jordan Ball 5809 47th Avenue NW Rochester, Minnesota, 55901

1.4 Facility Information

No facility or structure is currently on the subject property. Documentation and information on historic facilities on the subject property is not available and unknown.

NC Department of Transportation, Geotechnical Engineering Unit R5808 UST Closure

1.5 Contacts

Primary Contact: Craig Haden, Geoenvironmental Project Manager Geotechnical Engineering Unit North Carolina Department of Transportation 1589 Mail Service Center Raleigh, NC 27699-1589 919-707-6871

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

Consultant: Schnabel Engineering South, P.C. 1133 Military Cutoff Road, Suite 210 Wilmington, North Carolina 28405 Lisa Kowalczyk, Project Manager (480) 306-1217

Laboratory: Pace Environmental 9800 Kincey Ave., Suite 100 Huntersville, NC 28078 Taylor Cannon (704) 875-9092

1.6 UST Information

Schnabel located three USTs in the northwestern portion of Parcel #007, the subject property, south of US Highway 158 and east of Acorn Hill Road in Sunbury, North Carolina (see Figure 1). Minimal piping (less than 8 feet in length) was found extending northwesterly from Tank 1 (Figure 2). Other additional minimal piping was observed to extend from Tanks 2 and 3 directly vertical to the presumed former dispenser location(s). There is no record of historic compliance issues for this site and no incident number has been assigned.

1.7 Site Characteristics

Two single-story, single-room wooden shed-like buildings are located on the subject property. The subject property is mainly grass-covered, with some observed areas of debris and the aforementioned wooden buildings. No utilities cross the site. The ROW of the subject property includes asphalted road way and some grassy areas. Photographs of the Study Area are presented in Appendix F.

The site is located at an approximate ground surface elevation of 37 feet above mean sea level. Topography at the site is a relatively uniform slope toward the east. Based on the proximity to the surface water feature in the eastern portion and vicinity of the Site, groundwater flow is anticipated to flow in an easterly direction toward Jones Pond. Schnabel did not encounter bedrock nor groundwater during the UST removal activities.

NC Department of Transportation, Geotechnical Engineering Unit R5808 UST Closure

The subject property is located in the Coastal Plain physiographic province of North Carolina. According to the NCDEQ *State Geologic Map*, the site is underlain by the Yorktown Formation, characterized by fossiliferous clay with varying amounts of fine-grained sand, bluish gray, and shell material. The North Carolina Coastal Plain is underlain by a thick wedge of sediments that increases in thickness from a thin veneer near the Fall Zone to more than 4,000 meters under the continental shelf. These sediments rest on an eroded surface of Precambrian to early Mesozoic rock. Two-thirds of this wedge is comprised of late Jurassic and Cretaceous clay, sand, and gravel.

1.8 Scope of Work

- Remove the three (3) possible 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 inside the tanks is unknown, for estimating purposes assume 1000 gallons.
- Collect confirmatory samples.
- Backfill and compact with clean fill material.
- On reports and NCDEQ forms attribute UST ownership to former property owner (see subject above).
- Prepare a report documenting your activities sufficient to meet all NCDEQ requirements.

2.0 UST CLOSURE PROCEDURES

2.1 **Pre-Closure Procedures**

A UST-3 Notice of Intent form was sent to the Regional NCDEQ Office prior to closure activities (Appendix A). Schnabel contacted North Carolina 811 to locate subsurface utilities at the site prior to mobilization and notified the Gates County Fire Marshall of the schedule for closure. Before tank removal activities commenced, onsite personnel convened to review the Site-Specific Health and Safety Plan (HASP) included in Appendix B.

2.2 UST System Closure Procedures

The three (3) USTs were discovered in the NCDOT right-of-way during a geophysical investigation by Schnabel in July of 2023. The closure procedure followed NCDEQ's Underground Storage Tank Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases (January 19, 2021). The closure procedures are described in this report.

2.3 Excavated Soil Management

Soil removed from the tank pits was segregated into a clean (non-impacted) soil pile and a dirty (impacted) soil pile. The soils were segregated according to odor, visual observation of staining, and field screening readings with a photo ionization detector (PID). Soil located above each tank (approximately three feet), was placed in the clean pile. Two tank pits remained after the removal of the USTs (Excavation 1 Soils and Excavation 2 Soils), as shown in Figure 3, PID readings indicated that soil impact was present beneath Tank 1, so the soil excavated in this area in order to remove Tank 1 was placed into the dirty pile.

The tank pit for Tank 1 (Excavation 1 Soils area) was approximately 7 feet by 7 feet by 5.5 feet deep, and the tank pit for Tanks 2 and 3 (Excavation 2 Soils area) was approximately 10 feet by 10 feet and 5.5 feet deep.

Approximately 3.29 tons of petroleum impacted soil was removed for proper off site treatment and disposal by EVO Corporation at Triangle Area Earth Corporation in Zebulon, North Carolina. Disposal Manifests and the Truck Scale Certificate for the impacted soils are presented in Appendix E.

The excavation pits were backfilled with a fine to medium grained, light orangish brown, Well-Graded Sand (SW), up to the existing land surface elevation upon the completion of excavation activities. The disturbed area was then compacted by tamping with the bucket on the track-hoe.

2.4 Sampling Procedures

2.4.1 Soil Sampling Locations and Sampling Procedures

Closure samples (T1B1, T1B2, T2B1, T2B2, T3B1, T3B2, and T1P1) were collected by a 24-inch trackhoe bucket from the base of each tank. Grab samples were collected from the track-hoe bucket. One closure sample (T1P1) was collected beneath the product line that extended from Tank 1 at approximately 3 feet below ground surface. No dispensers were onsite and thus no closure samples from beneath dispenser were collected as part of these closure procedures. Samples were collected in laboratory-supplied glassware and were placed on ice in an insulated cooler and analyzed by Pace Analytical, located in Huntersville, North Carolina. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO) by EPA Method 8015 C and SW-846.

Soil sample locations with analytical results are shown on Figure 3.

2.4.2 Groundwater Sampling Location and Sampling Procedure

Groundwater was not encountered during the excavation of Tanks 1 through 3.

2.5 Quality Control Measures

Closure samples were placed in laboratory-supplied containers and stored on ice and driven to Pace Environmental laboratory location in Raleigh, North Carolina. Sample information was recorded on the Chain-of-Custody form. Soil samples were submitted for chemical analysis of TPH-GRO and TPH-GRO using Method 8015 C and SW-846.

2.6 Release Description

Results of the PID scanning of soil samples obtained during the UST removal indicated that petroleum impact was present at various concentrations on the northwestern portion of the subject property beneath the USTs. The impact was focused in an area surrounding the three removed USTs. Analytical results showed that TPH-GRO were detected at concentrations that exceed the TPH-GRO state soil action level of 50 milligrams per kilogram (mg/kg).

NC Department of Transportation, Geotechnical Engineering Unit R5808 UST Closure

2.7 Investigative Results

The action level of 50 mg/kg for TPH-GRO was exceeded in closure samples T1B1 (567 mg/kg), T1B2 (936 mg/kg), T2B1 (642 mg/kg), T2B2 (889 mg/kg), T3B1 (661 mg/kg), and T3B2 (1640 mg/kg). The action level of 100 mg/kg for TPH-DRO was not exceeded at any closure sample points analyzed. A summary of the results are presented in Table 1 below. Complete copies of the laboratory analytical reports are provided in Appendix F.

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FEET BGS)	PID FIELD SCREENING (PPM)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C28) (mg/kg)	Percent Moisture (%)
T1-P1	10/17/2023	2.5	2.4	ND	ND	23.1
T1-B1	10/17/2023	7	NS	567	39.4	19.4
T1-B2	10/17/2023	7	NS	936	32.0	24.6
T1-B3*	10/17/2023	7	1035	NT	NT	NT
T2-B1	10/17/2023	6	2574	642	21.0	19.5
T2-B2	10/17/2023	6	1527	889	18.1	20.8
T3-B1	10/17/2023	6	1706	661	13.2	20.2
T3-B2	10/17/2023	6	1528	1640	21.0	21.3
Tank 1 Fill**	10/17/2023	Composite Sample	2.1	NT	NT	NT
Tank 2 Fill**	10/17/2023	Composite Sample	10.5	NT	NT	NT
Tank 3 Fill**	10/17/2023	Composite Sample	5.7	NT	NT	NT
Excavation 1 Soil	10/17/2023	Composite Sample	14.1	NT	NT	NT
Excavation 2 Soil	10/17/2023	Composite Sample	5.1	NT	NT	NT

Table 1: Summary of PID and Analytical Soil Sample Results

NOTES:

BGS = Below Ground Surface

PPM = Parts Per Million NT = Not Tested

ND = Not Detected NT = Not Tested * = One location below midline of Tank 1 screened with PID in field.

** = Samples collected from area directly surrounding UST fill pipe.

BOLD = Exceeds TPH-GRO state (soil) action level of 50 mg/kg -or- TPH-DRO soil action level of 100 mg/kg

3.0 SOIL BACKFILL

The excavation pits were backfilled with a fine to medium grained, light orangish brown, Well-Graded Sand (SW), up to the existing land surface elevation upon the completion of excavation activities. The disturbed area was then compacted by tamping with the bucket on the track-hoe.

4.0 REGULATORY STATUS

Schnabel completed and electronically submitted the UST-61 24-Hour Release and Leaking UST Report Form to the NCDEQ. A completed UST-2A form, Site Investigation Report for Permanent Closure or Change in Service of a Registered UST is included in Appendix A of this report for submittal to the NCDEQ.

Per NCDEQ's Underground Storage Tank Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases (January 19, 2021), the soil samples collected and analyzed from this site indicate that a potentially minor release from the system has occurred. In order for the site to be eligible for closure, as the analytical results indicate that TPH-GRO state soil action levels are exceeded at this site, further actions (typically a limited site assessment) are required.

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Schnabel observed the removal of three (3) USTs and associated minimal piping on October 17 and 18, 2023 from the subject property in Sunbury, Gates County, North Carolina. Tank 1 had an approximately 1,000-gallon capacity and Tanks 2 and 3 had approximately 550-gallon capacities, respectively.

A PID indicated Volatile Organic Compound (VOC) readings from the midline of Tank 1 of 1035 ppm. Higher VOC readings from the midline samples of Tanks 2 and 3 ranged from 1527 ppm to 2574 ppm. The laboratory results of the soil samples collected from the midline, beneath the UST, indicated the presence of impacted soil beneath all three tanks.

If excavation activities exceed a depth of three feet, impacted soil may be encountered and the NCDOT should properly transport and treat the excavated soil. Groundwater was not encountered during the tank closure. If groundwater is encountered during construction, it should be evaluated for possible impact, including further assessment of the proximity of public and private water supply wells near and downgradient of the site. If impacted soil or groundwater is encountered during construction activities, appropriate measures should be taken to ensure worker safety. In addition, any impacted soil or groundwater disturbed during construction should be handled and disposed of in accordance with applicable regulations. It is recommended that the findings of this closure report be provided to the local NCDEQ office in Washington, North Carolina.

6.0 LIMITATIONS

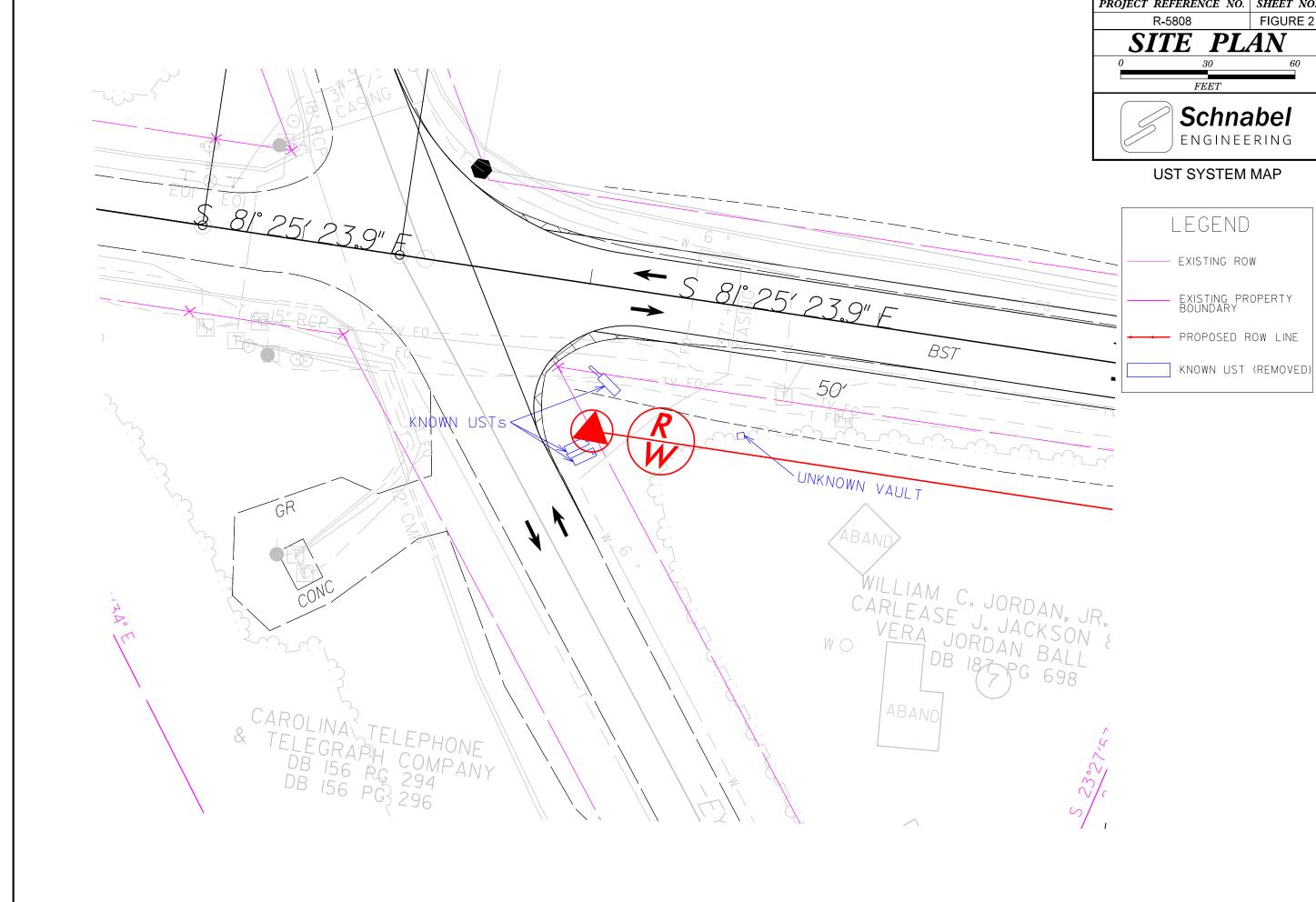
This UST Closure and Initial Abatement Action Report was prepared for the use of the North Carolina Department of Transportation. The scope of work performed at the site is limited to the tasks described in our cost proposal dated September 19, 2023. This report is not intended to represent an exhaustive research of all potential hazards that may exist. We have endeavored to complete the services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions as this project. No other representation, express or implied, is included or intended, and no warranty or guarantee is included or intended in this report, or other instrument of service.

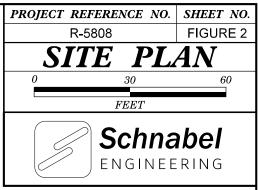


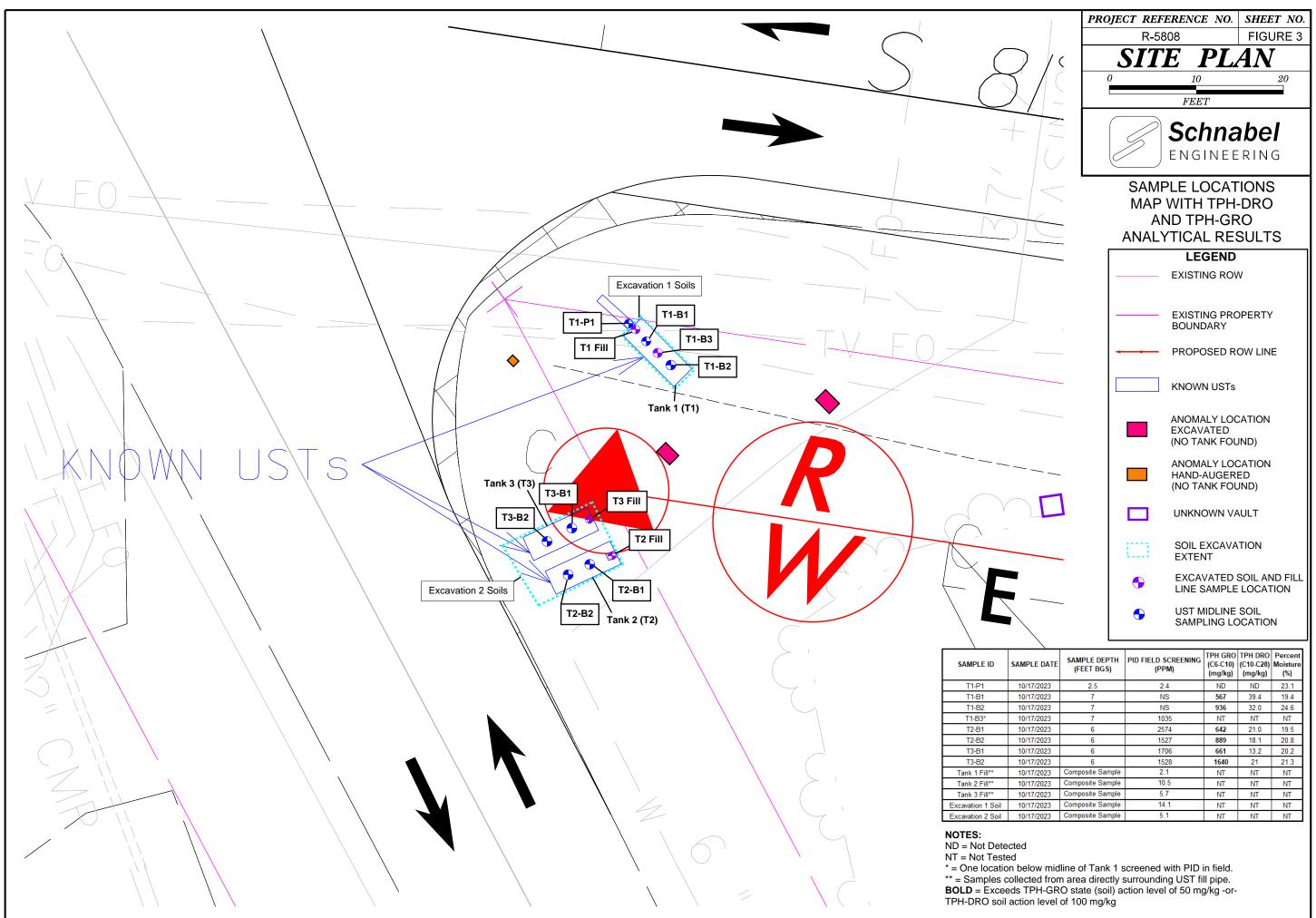
PROJECT NO. 23290032.001

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FIGURE 1







SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FEET BGS)	PID FIELD SCREENING (PPM)		TPH DRO (C10-C28) (mg/kg)	Percent Moisture (%)
T1-P1	10/17/2023	2.5	2.4	ND	ND	23.1
T1-B1	10/17/2023	7	NS	567	39.4	19.4
T1-B2	10/17/2023	7	NS	936	32.0	24.6
T1-B3*	10/17/2023	7	1035	NT	NT	NT
T2-B1	10/17/2023	6	2574	642	21.0	19.5
T2-B2	10/17/2023	6	1527	889	18.1	20.8
T3-B1	10/17/2023	6	1706	661	13.2	20.2
T3-B2	10/17/2023	6	1528	1640	21	21.3
Tank 1 Fill**	10/17/2023	Composite Sample	2.1	NT	NT	NT
Tank 2 Fill**	10/17/2023	Composite Sample	10.5	NT	NT	NT
Tank 3 Fill**	10/17/2023	Composite Sample	5.7	NT	NT	NT
Excavation 1 Soil	10/17/2023	Composite Sample	14.1	NT	NT	NT
Excavation 2 Soil	10/17/2023	Composite Sample	5.1	NT	NT	NT

APPENDIX A

NOTIFICATION OF INTENT UST-3, UST-2A, UST-61

UST-	3 Notice	of Intent:	UST	Perma	nent	Clos	sure	or Ch	nang	e-in-	Service
The DWM Regio Go to the followir	Return completed form to: STATE USE ONLY The DWM Regional Office located in the area where the facility is located. Also send a copy to the Central Office in Raleigh. I.D. #										
			INSTRU	ICTIONS (READ 1	This fir	RST)				
Complete and	return a UST-3 forr	n at least thirty (30) days	prior to cl	osure o	r change	e-in-se	rvice activ	/ities.		
to the appropriation of the should also be fee account ca	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.										
Checks, Tank	UST closure and change-in-service site assessments must be completed in accordance with the latest version of the <i>Guidelines for Site</i> <i>Checks, Tank Closure and Initial Response.</i> The guidelines can be obtained at <u>https://deg.nc.gov/about/divisions/waste-management/ust</u> . 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.										
tank(s) will be t a qualified com	taken for disposal.	Usually, USTs a sed of illegally in	re cleane fields or	ed and cut other dum	up for s psites o	crap me an leak	etal. T petrole	his is dan eum prod	gerous ucts and	work ar d sludge	contractor, ask where the nd must be performed by a into the environment. If that occurs.
/-		IP OF TANKS							LOCAT	ION	
Owner Name (Co William Jordor	orporation, Individual, n Jr., Carlease Jacks	Public Agency, or on and Vera Jor	Other Ent dan Ball	ity)	Facility Willia	Name or m Jordo	· Compa on Jr., (any Carlease .	lackson	and Ve	era Jordan Ball Property
Street Address 5809 47TH AV						ID # (If k					
City Rochester		County Olmsted			Street	Address neast Qu	ıadran	t of US 1	58 & Ac	orn Hi ll	Rd, Sunbury 27979
State MN		Zip Code 55901			City Sunb	urv			County Gates	5	Zip Code 27979
Phone Number N/A	Email					Number					
			111.	CONTAC		ONNEL					
Name: Craig Haden		Company Name NC Departme	e: nt of Tra	nsportatio	'n	Job Title GeoEnv		nental Pro	oiect Ma		hone Number: 19-707-6871
 Plan entire of Conduct Sit If removing API Publica Storage Ta 	al fire marshal. closure event. e Soil Assessment. tanks or closing in pla tanks and 1604 Re f Used Underground rks.	Petroleum moval and 7	Provide soil sam Submit a 12 (inclu (30) day If a relea site asso must be	a sketch lo ipling location a closure repuding the for rs following the ase from the essment po conducted	cating pi ons. port in the orm UST he site in tanks h rtion of t under the	ping, tan e format c -2) within nvestigation as occurr he tank of e supervis	ks and of UST- n thirty on. ed, the closure sion of	a F rep P.E sup not	P.E. or L. orts bea E. or L.G pervision required	ring the If a re , signatu I.	all closure site assessment signature and seal of the lease has not occurred, the re or seal of a P.E. or L.G. is Is for three (3) years.
Contractor Name	9:		V. WO	RK TO BE		ompany N					
Tony Disher					O Corp	oration					
Address: 1703 Vargave	Street			City: Winston	-Salem			State: NC	Zip Co 27107		Phone No: 877-725-5844
Primary Consulta Lisa Kowalczy	ant Name: k		Prima Schr	ary Consulta nabel Engi	nt Comp neering	any Nam South.	e: PC				ultant Phone No: 769-1621
		VI. TANKS SC		-	-						
							Clos		roposed	Activity	Change-In-Service
Tank ID No.	Size in Gallons		ast Conter	nts		emoval		idonment in	Place *		New Contents Stored
1	275	Gasoline, Ga									
2	275 550	Gasoline, G					┝┝┥				
5											
* 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: Lisa Kowalczyk, Project Manager of Schnabel Engineering South, P.C. for NCDOT											
Signature	SignatureDate SignedSCHEDULED REMOVAL DATENotify your DWM Regional Office 48 hours before this date if scheduled removal date changesSignature9/21/202310/16/2023Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes										

US	UST-2A Site Investigation Report for Permanent Closure or Change-in- Service of REGISTERED UST														
Return con	anleted for	m to:				REGIS	SIER	EDUSI					2.0	Quality	GR.
Return con		N 1 F	1646 RALE	MAIL SERV IGH, NC 27				Facility ID # Date Receive		TE USE	E ONLY:				
phone	ATTN: REGISTRATION & PERMITTING Date Received														
INSTRUC	INSTRUCTIONS (READ THIS FIRST)														
	1. UST permanent closure or change in service must be completed in accordance with the latest version of the <i>Guidelines for Site Checks, Tank</i>														
Closure manag	e and Initia ement-pern	il Respo nit-guida	nse a ince/u	and Abater	<i>nent</i> . The guid <u>d-storage-tanks</u>	delines can be			leq.nc.gov/abou						
	nent closure														
III, IV, a	and VI	_			attach additiona	Ū	U	ed substance	to a non-regula	ted si	ibstance	e, com	plete s	ection	s I, II,
5. Tank F a writt fee wil	ee Refund en request l be prorat	: An anr and inc ed base	nual t clude d on	ank fee ma : (1) conta the date of	ay be refunded ct information f permanent cl	for a tank for , (2) federal ic	which		is not required N, and (3) a co						
	GISTERED			orm UST-28	; 				TANKO						
I. OWNER Owner Nam	e (Corpora	tion, Indi	ividua	I, Public Ag	gency, or Other	Entity)	Facilit	CATION OF y Name or Co	mpany						
William Jo	ordon Jr., (Carleas	e Jac	kson and	Vera Jordan I	Ball	Willi	am Jordon .	Jr., Carlease Ja	ickso	n and '	Vera J	ordar	n Ball	Prc+
Street Addre 5809 47T		1					N/A	y ID # (If knov	vn)						
City Rocheste	r				^{ounty} DImsted			Address heast Quad	rant of US 158	3 & A	corn H	ill Rd			
<u> </u>	nesota				^{p Code} 55901		City Sunk			County Zip Code Gates 27979					
Phone Num N/A	ber						Phone	Number							
	ACT PERS	ONNE	L												
Contact for	Facility:	aig Hac						Job Title: GeoEnvir	onmental P+	Ph	one #:	919-7	07-68	71	
Closure Cor Tony Dish	er		EV	O Corpor			Address: 1703 Vargave Street, Phone # 877-725-5844								
Primary Cor Lisa Kowa	nsultant Nai Iczyk	me:			Itant Company: gineering So			Address: 1133 Milit	tary Cutoff R+		one #	180-3	06-12	17	
	IFORMAT				ED UST SYS T-2B					V. I	EXCAV	ΟΙΤΑ	N CO	NDIT	ION
Tank ID No.	Size in Gallons	Las Conte		Last Use	Permanent Close Date	Method of F Indicate RE			Change-in-	10/2	ater in				able or or
NO.	Galions	Conte	ins	Date	Close Date	material		s foam/	Service Date		avation	Free p	No	contar	le soil minatio n No
1	1000	water	′-g+i		10/17/2023	Removed					R		X	M	Π
2	550	water	-9+		10/17/2023	Removed				Π			X		
3	550	water			10/17/2023	Removed					X		N		
			<u> </u>												
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 Lisa Kowalczyk, Project Manager of Schnabel Engineering South, P.C. for NCDOT															
Signature	1 9	1 .						Date Signe							
C	/ / /	owale	1						11/28/202		NT LIE	T SEC			
NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WASTE MANAGEMENT, UST SECTION 1646 MAIL SERVICE CENTER, RALEIGH, NC 27699-1646 PHONE (919) 707-8171 FAX (919) 715-1117 <u>http://www.wastenotnc.org/</u> 1/2016															

UST-61	UST-61 24-Hour Release and UST Leak Reporting Form.								
			nis form is req				own or suspected release from urs of discovery of a known or		
(DWM USE ONLY) Incident # Risk (H,I,L,U Received On Received By Reported by (circle one): Phone, Fax Region	or Report Sa	Suspected Contamination? (Y/N) Facility ID Number Confirmed GW Contamination? (Y/N) Date Leak Discovered Confirmed Soil Contamination? (Y/N) Comm/Non-Commercial? Samples Taken? (Y/N) If Yes, State Greatest Free Product? (Y/N) If Yes, State Greatest							
INCIDENT DESCRIPTION Incident Name: William Jordon Jr., Carlease Jackson and Vera Jordan Ball Property									
Address: Southeast Quadrant of US	158 & Acorn Hill Rd, Sun	nbury, NC 28	3401		Cou	unty: Gat	tes		
City/Town: Sunbury	Zip	p Code: 284	401	Regional Raleigh	Office (circle o Vashington) W	ne): Ash 'ilmingtor	eville, Mooresville, Fayetteville, n, Winston-Salem		
Latitude (decimal degrees): 36.442633	5 (•): -76.54653				Obtained by:		
Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors) □ GPS □ Topographic map □ GIS Address matching □ GIS Address matching □ GIS Address matching □ Construction of soil sampling showing TPH-GRO concentrations greater than 50 mg/kg were received and visibly stained was disposed of in accordance with all applicable guidelines as petroleum-contaminated soil. Clean fill was brought in from off-site and holes filled. □ Unknown Describe location:									
Release Detection Equipment or N During UST Closure/Removal	Nethods	EASE WAS DISCOVERED (Release Code) (Check one)			Gro	Groundwater Contamination Surface Water Contamination Other (specify)			
	SOUR	CE OF (CONTAM	INATIO	N				
Source of Release (Check primary source)	Cause of Rele (Check primary ca		<u>Type of F</u> (Check		(Cheo	roduct	<u>Type Released</u> y product type released)		
 Tank Piping Dispenser Submersible Turbine Pump Delivery Problem Spill Bucket Other Unknown 	ical on reverse	Petrole Non-Pe Both <u>Local</u> (<i>Check</i> Facility Resider	etroleum tion one)	Kerose Ke	g Oil Petroleum	Blend Vegetable Oil 100% E10 – E20 E21 – E84 E85 – E99			
Definitions presented on reverse Definitions presented on reverse Ownership 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State Operation Type 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining									

IMPACT ON DRINKING WATER SUPPLIES								
Water Supply Wells Affected? 1. Yes	2. No 3. Unknow	wn						
Number of Water Supply Wells Affected N/A								
Water Supply Wells Contaminated: (Include	Users Names, Addresses and P	hone Numbers. Ai	ttach additional shee	t if necessary)				
1. 2. 3.								
	UST SYSTE	MOWNER						
UST Owner/Company William Jordon Jr., C	arlease Jackson and Vera Jorda	an Ball	Point of Contact					
Email		Address 5809 47TH	HAVE NW					
City Rochester	State Minnesota	Zip Code	Zip Code 55901 Telephone Number					
UST Operator/Company	UST SYSTEM	OPERATO	R					
Email		Address						
City	State	Zip Code		Telephone Number				
Landowner LA William Jordon Jr., Carlease Jackson and V	NDOWNER AT LOCA	TION OF US	T INCIDENT	·,				
Email		Address 5809 47TH	HAVE NW					
City Rochester	State Minnesota	Zip Code	55901	Telephone Number				
Draw Sketch of Ar	ea (showing two ma	jor road int	ersections)	or Attach Map				
	SEE ATTACHED MA	P						
Person Reporting Incident Lisa Kowalczyk	Company Schnabel Engineer	ring South, P.C.		Telephone Number 910-769-1621				
Title Senior Staff Engineer/PM	Address 1133 Military Cutoff I	Road, Suite 210		Date 11/3/2023				
UST Form 61 (02/19)				Page 2 of 2				

Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.) Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

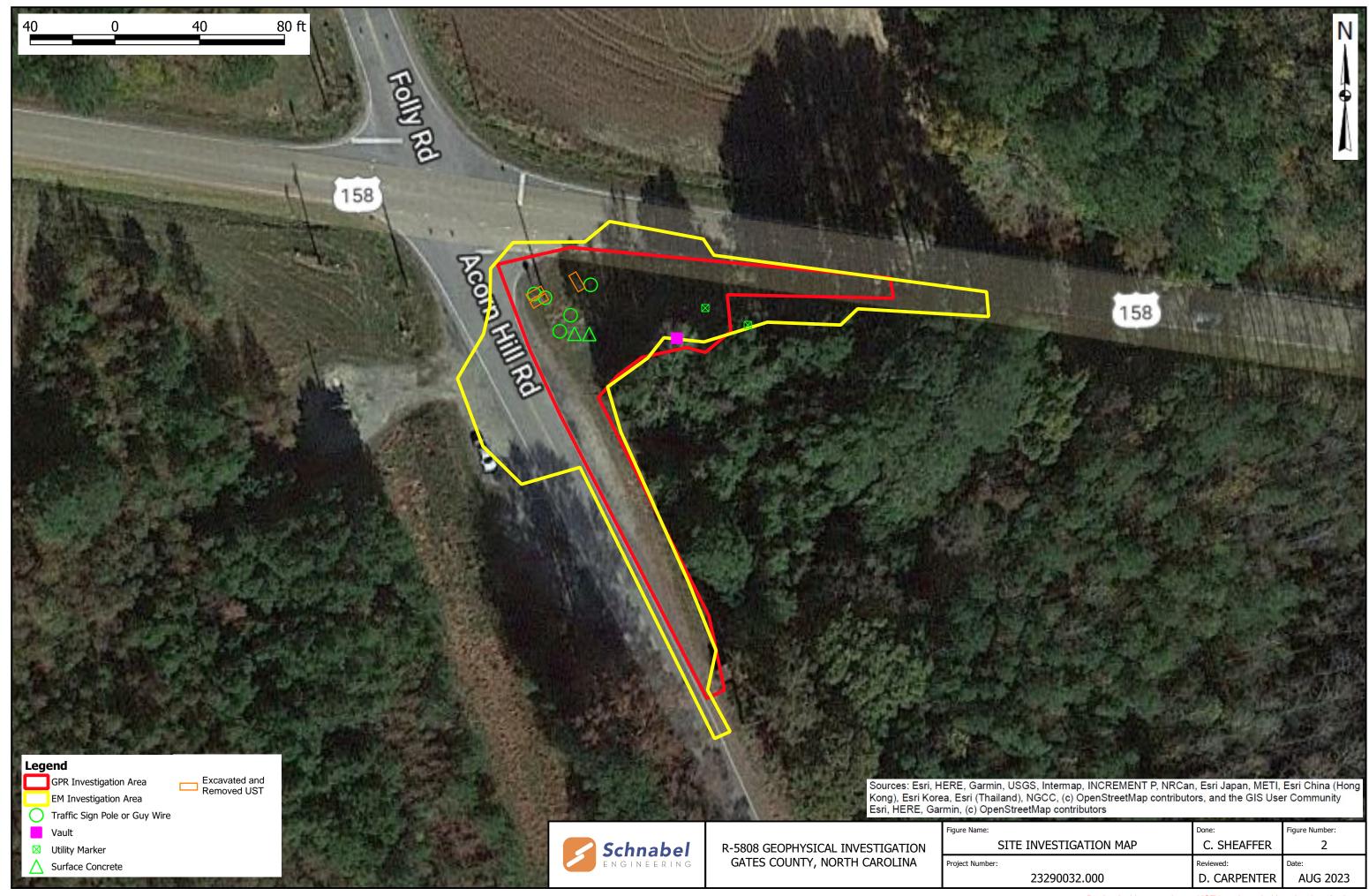
Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser) Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust) Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells) Unknown: use when the cause has not been determined



	Done:	Figure Number:
INVESTIGATION MAP	C. SHEAFFER	Z
	Reviewed:	Date:
23290032.000	D. CARPENTER	AUG 2023

APPENDIX B

SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP)



Health and Safety Plan

UST Closure and Soil Excavation Sunbury, NC Project No. 23290032.001

October 13th, 2023

INTRODUCTION

Schnabel Engineering, Inc. strives to maintain a safe and healthy work environment, benefitting its employees, clients and the general public. The purpose of this plan is to address specific hazards that may be encountered during Schnabel's UST closure and removal and subsequent soil excavation at the corner of US Highway 158 and Acorn Hill Road in Sunbury, NC 27979. This site – specific plan acts as a companion document to the Schnabel Safety First Manual, available to all employees on the Schnabel intranet. <u>ALL EMPLOYEES ARE GIVEN STOP</u> <u>WORK AUTHORITY</u>. All employees and contractors have the authority to stop any task or operation where concerns or questions regarding the control of health and safety risks exist. It is the responsibility of all employees on the site to stop work at any time to protect their respective safety and health, the safety and health of everyone around them, and the environment. No work will resume until all issues and concerns have been adequately addressed. Any form of retribution or intimidation directed at any individual or company for exercising their authority as outlined will not be tolerated.

Unsafe or unhealthy work conditions; practices or procedures shall be corrected in a timely manner based on the severity of the hazards. Hazards shall be corrected according to the following procedures:

- When observed or discovered;
- When an imminent hazard exists which cannot be immediately abated without endangering employees or property, we will remove all exposed workers from the area except those necessary to correct the existing condition. Workers necessary to correct the hazardous condition shall be provided with the necessary protection; and,
- All such actions taken and dates they are completed shall be documented on the appropriate forms.

BEFORE LEAVING

Convey the itinerary to the Project Manager and Program Manager. Include locations, arrival and departure dates and times. Ensure the office has contact information including name and phone number of person to contact in case of emergency. Ensure the Project Manager has a list of activities to be conducted during field investigations. Discuss the conditions of the project site and any potential safety concerns, logistics, site-specific information that might help the inspection, etc.

EMERGENCIES

Title	Name	Number
Program Manager	Jake Wessell, PE	910 617-5350
Project Manager	Lisa Kowalczyk	276 245-7110
Project Manager		803 626-2910
Schnabel Field	Quinton Hill	603-657-4875
Schnabel Field		
Corporate EHS	Todd Ramkey	804 402-0664
Emergency Services		911
Urgent Care Facility	Sentara Albemarle Medical Center	252-384-4833

The following are emergency contact numbers in case of an on-site accident:

Emergency situations can be characterized as fire, explosion, environmental release, accident or injury to field personnel. The Project Manager will be notified immediately in the event of an incident. In the event of an emergency situation, all personnel will evacuate and assemble at a determined safe zone. Local emergency services shall be contacted as soon as possible. In the case of a life-threatening accident, emergency first aid may be applied on site as deemed appropriate. Basic emergency and first aid equipment will be provided to staff, including first aid kits and portable fire extinguishers.

Hospital / Emergency Room for the current Work Location:

1.	Head east on US-158 toward Orchard St.	15.5 mi.
2.	Turn right onto US-158 E/Hwy 17 S	2.6 mil
3.	Continue onto US-17 BYP S (signs for Hertford/Edenton)	187 ft
4.	Use the right 2 lanes to take the ramp to US-158E/Hwy 17 S/N Road St.	0.9 mi
5	Continue onto US-158 E/ Hwy 17 S/N Road St.	6.1 mi
6	Turn left onto Medical Dr.	79 ft
7	Arrive at Sentara Albermarle Medical Center, 110 Medical Dr. #1, Elizabeth City, NC 27909	

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE) shall be provided to all employees free of charge. ANSIapproved hardhats, safety glasses, and steel-toe work boots are required at all times on the jobsite. Additional PPE may be required depending on the task or scenario and potential requirements will be reviewed by the On-Site Safety Representative. The safety equipment provided shall be used for employee protection and must be regularly inspected before use. Safety equipment showing signs of mildew, broken fibers, deterioration, excessive wear or damage which could affect its strength shall be removed from service and destroyed. It is reasonably anticipated equipment may become wet during work activities on this project, and they must be thoroughly dried before storing. Storage shall be in a dry location away from caustics or corrosives.

The purpose of PPE is to provide a barrier, which will shield or isolate individuals from the physical hazards that may be encountered during work activities. The minimum level of PPE to be worn for this project is Level D. The safety equipment shall be used for employee protection and must be regularly inspected before use. Manufacturers' procedures for donning and removing PPE will be followed in order to ensure its integrity and reduce or eliminate contamination of equipment or work zones.

Additional PPE will be stored and maintained on site. Employees are responsible for inspecting PPE prior to use and after work. All equipment showing signs of wear, fatigue or damage shall be removed from service and discarded. The SSHO, along with consultation from Corporate Health and Safety will determine appropriate levels of protective gear to be worn in the event additional hazardous materials are encountered:

High Visibility Safety Vest – Workers on site must wear high visibility yellow/lime vest with reflective tape that meets ANSI/ISEA 107 2004, Class II requirements.

Hardhat – All team members, subcontractors and visitors on site must wear an ANSI Z89.1 hardhat on the work site 100% of the time. Nothing should come between the user's head and the hard hat's cradle/harness (such as a ball cap). Hard hats should be regularly assessed for efficiency, and discarded if cracked, split, or any other way compromised, including the cradle/harness. Visitors must wear hard hats while on site. Western style hardhats, aluminum hardhats, baseball caps under the hardhats, and bump caps are prohibited on the project site. The brim/bill must always face forward.

Eye Protection – Eye protection is required at all times while on the project site. Safety glasses must meet ANSI Z 87.1 requirements. Safety glasses must fit the user snugly and not interfere with movements of the user, be durable, capable of being disinfected and easily cleaned, and should be kept in good condition. Arrangements shall be made prior to commencement of work for field staff that use corrective lenses or contact lenses. ANSI-Z87.1 approved prescription glasses may be used on site.

Protective Footwear – ANSI Z 41.1 approved safety boots are required for all employees, subcontractors and visitors on site. Boots must have steel-toes or caps, and must have soles that will prevent slipping on wet, loose or smooth surfaces. Soles should also prevent penetration by sharp objects.

Hand Protection – Various types of protective gloves are available and should be selected based on the task at hand. Cloth gloves can be used to provide protection from slivers and abrasions. Leather gloves provide protection from sparks, some heat and from rough materials. Nitrile gloves provide protection from water, solvents and various chemicals. During specimen collection, cuffed nitrile or rubber gloves must be worn to prevent dermal hazards.

With each type of hand protection there are limitations that should be understood. Individual preference of size and style must be considered, but the selection of the most appropriate type of gloves shall be completed for each job performed. There are limitations to consider, including

gloves with large cuffs or material that could become caught near rotating or pinching equipment. All gloves should fit appropriately and should be easily removed.

Hearing Protection – Hearing protection is required whenever ambient noise levels equal or exceed 85 decibels (dBs). For instance, operators of equipment with open cabs, including cabs with open doors or windows, employees working around motorized equipment, or pneumatic/hydraulic tools should don hearing protection. All protective devices shall have a noise reduction rating. Noise blocking earmuffs, attached to hard hats, are the recommended method of hearing protection while working in high noise areas. Disposable or multi-use earplugs can be worn in areas when communication between staff is necessary or frequent.

Clothing Requirements – All personnel on site must wear clothing appropriate for the task. Minimally, tee shirt with 4 inch sleeves and full length pants are required. Clothing must be in good condition, with no loose or hanging parts that could become entangled in tools or machinery. Long shirt tails should be tucked. Clothing with draw strings at the waist or neck is prohibited.

Specialized Protection – Additional body and face protection will be provided should conditions require (e.g., chaps for chainsaw, faceshield).

The Project Manager or SSHO will determine appropriate levels of protective gear to be worn in the event hazardous materials are encountered. Manufacturers' procedures for donning and removing PPE will be followed in order to ensure its integrity and reduce or eliminate contamination of equipment or work zones. PPE will be stored and maintained in Schnabel Engineering's possession. Employees are responsible for inspecting PPE prior to use and after work. All equipment showing signs of wear, fatigue or damage shall be removed from service and discarded.

VEHICLES ON PROJECT SITE

Motor vehicles on site can expose team members to hazardous situations, as well as the general public and nearby regular traffic. All established NCDOT and local traffic laws shall be obeyed implicitly. Team members tasked with driving must be qualified and have a valid driver's license on their person at all times. All vehicles used on the project must be properly registered and insured (with proof) and must be maintained in a safe operable condition in accordance with applicable statutes. Vehicles must be equipped with jack, lug wrench, spare tire, safety belts, first aid kit, and fire extinguisher. Vehicles used to transport team members must have firmly secured seats adequate for the number of passengers. Seatbelt use is required at all times on the project. Prior to operation, the driver should inspect the vehicle routinely to ensure proper condition. Drivers are prohibited from mobile phone use during operation, unless using a hands-free system.

CHEMICAL SAFETY

Potential for exposure exists when sampling, excavating or stockpiling contaminated soil. Excavation and stockpiling activities may result in airborne dust that must be controlled to prevent off-site migration. Work activities will take place in the exclusion zone. A contamination reduction zone (CRZ) will be designated for personnel and equipment decontamination; a support zone (SZ) will be designated for "clean activities." The support zone will be assessed by

observation during site operations where the potential exists for contact with contaminants. Measures must be taken to prevent an uncontrolled release or exposure to vapor, liquid or solid contaminants by workers and/or the general public.

Possible routes of exposure for contaminants on site include:

Inhalation - An inhalation exposure to volatile organic compounds through respiratory exposure to dusts and soil particles, fumes, mists, gases, vapors or smoke.

Contact with Skin and Eyes – Contaminated soil, groundwater and surface water may come into contact with skin and eyes during work activities. Personal protective equipment as well as utilizing good hygiene/work practices will minimize the potential of exposure by this route.

Ingestion - Ingestion of contaminated materials may occur as a result of a hand-to-mouth contact (eating, drinking, smoking) in contaminated areas or prior to appropriate personal decontamination. Frequent and thorough washing of hands and face, prohibition of eating and smoking in the work area, proper use of work clothing and personal decontamination will control the potential for ingestion of contaminated materials.

The project involves inspection, possible excavation and sampling of contaminated soil. Potential hazards posed by acute exposure to contaminates within the soil and groundwater include mucous membrane irritation and skin irritation. Chronic exposure may result in central nervous system effects, GI effects, and reproductive system effects.

WEATHER

When there are warnings or indications of impending severe weather (heavy rains, thunderstorms, damaging winds, tornados, hurricanes, floods, lightning, etc.), weather conditions shall be monitored using a weather station that is part of the National Oceanic and Atmospheric Administration (NOAA) or similar notification system. Appropriate precautions shall be taken to protect personnel and property from the effects of the severe weather. In areas with frequent inclement weather, pre-task discussion shall include the following information specific to the particular work area:

- Training on severe weather precautions and preparations; and
- Identify areas of retreat, preferably substantial structures.

If severe weather occurs that may affect the safety of site workers, the Project Manager or SSHO shall stop affected field operations. The Project Manager or SSHO will resume operations when weather conditions improve.

Various weather conditions are anticipated on this project. During warmer periods, heat stress may be possible. The Project Manager or SSHO will ensure that heat stress programs are implemented and that adequate rest breaks and liquid (i.e., water, Gatorade) consumption occur. Proposed work/rest schedules will be dependent upon the weather conditions encountered and the level of personal protective equipment being utilized by on-site personnel. The Project Manager or SSHO will establish work/rest schedules prior to the commencement of the project tasks and will adjust as needed.

During colder periods, all team members will be aware of weather conditions and will take cover if potentially hazardous weather conditions develop. Dress appropriately for given conditions, including the use of thermal undergarments, layering and water/wind proof outer shells. Be prepared for the possibility of becoming stuck or stranded, particularly if driving on infrequently traveled roads. When riding in a car, be sure to have the appropriate winter clothing and supplies.

BRUSH CUTTING / MACHETE USAGE

It is not anticipated that work on this site will require staff to clear brush. However, if brush cutting is necessary, machetes and high-powered brush cutters will be used to clear when surveying new routes through dense vegetation (typically less than one inch in diameter). Prior to using a machete, ensure the blade is sharpened. The machete shall be kept in a scabbard when not in use. Use extreme care when working around others, allow for adequate clearance of both the swing radius of the blade and falling cuttings. Level D PPE shall be worn including safety glasses.

Dense vegetation will be cleared with brushcutters. Improper use of any brushcutter can cause serious or fatal injury. Read, understand and follow all safety instructions in the instruction manual. Operators shall don hardhats, ear muffs or ear plugs, eye and face protection, and steel toe boots. Work gloves shall be used to protect the hands from debris and vibration. The harness attached to the brushcutter shall be donned by the operator and properly fastened. Upon starting the brushcutter, do not allow others in the work area. The rotating cutting attachment may fling foreign objects directly or by ricochet a great distance. It is imperative that all bystanders or coworkers are at least 50 feet away from the machine. Any co-workers in the restricted area must wear protective equipment. The use of hearing protection will compromise communication, and as such the operator must maintain situational awareness. To cut wild growth, keep cutting mechanism below waist height at all times. The higher the blade, the greater the risk of loss of control. The potential for "kickback" always exists, consult the Owner's Manual to select the proper blade for the work scenario.

SLIPS AND FALLS

As in any work area, it is expected that the ground may be uneven, the surface may be unreliable due to surface unevenness, debris may be present, wet or muddy areas may exist and some work may be performed on poly sheeting. Therefore, the potential for slips, trips and falls is present. Tools, equipment and supplies must be stored in a suitable location at the site so they can be safely accessed. All work areas shall be reasonably clear of obstructions, grease, mud or any other materials likely to cause a slip, trip or fall.

Special care must be taken around areas of water. A clearly designated area or zone of concern should be established around water hazards. Staff shall watch for hazards while they are walking and not carry objects that obstruct their vision. Staff shall practice proper housekeeping to keep areas free of obstacles which can cause slips and trips in work and walking areas. These areas should never be obstructed by objects of any kind. Walking and working surfaces greater than 4 feet in height must have standard guardrails for protection. When accessing ladders or equipment, always face and maintain 3 points of contact at all times. Keep ladders and equipment free of debris by cleaning boots of mud or dirt when accessing.

BIOLOGICAL HAZARDS

The locations of the project sites are such that biological hazards may be encountered. Biological hazards that may be present include, but are not limited to:

- Ticks and insects;
- Plants such as poison ivy, oak, and sumac; and
- Small animals and snakes, especially near standing water.

All employees with the potential to contact the flora and fauna indicated above should be cautious when working in areas that may support these types of hazards. The SSHO will assess suspect areas and warn workers when there is a possibility of contact with these items. Insect repellent should be worn if allowed per project, and all staff shall dress in light colored clothing and tape seams in heavily infested areas. A thorough post-job inspection should be conducted.

It is recommended that personnel check themselves when in areas that could harbor deer ticks, wear light color clothing and visually check when coming from wooded or vegetated areas. The tick can be removed by pulling gently at the head with tweezers. The affected area should then be disinfected with an antiseptic wipe. The employee will be offered the option for medical treatment by a physician, which typically involves prophylactic antibiotics. If personnel feel sick or have signs similar to those above, they should notify the Project Manager or SSHO immediately.

The potential for contact with poisonous plants exists when performing field work in undeveloped and wooded areas. Poison ivy, sumac, and oak may be present on site. Poison ivy can be found as vines on tree trunks or as upright bushes. Poison ivy consists of three leaflets with notched edges.

Prophylactic application of Tecnu may prevent the occurrence of exposure symptoms. Post exposure over the counter products are available and should be identified at the local pharmacist. Susceptible individuals should be identified by the SSHO. Contact with poison ivy, sumac, or oak may lead to a skin rash, characterized by reddened, itchy, blistering skin which needs first aid treatment. If contact occurs with one of these plants, immediately wash skin thoroughly with soap and water, taking care not to touch the face or other body parts.

Snakes could be present near waterways, shores, and mobilization areas. Field personnel should watch where they place their hands and feet when removing debris. If possible, don't place fingers under debris you are moving. Wear heavy gloves. If you see a snake, step back and allow it to proceed. Wear boots at least 10 inches high. Watch for snakes sunning on fallen trees, limbs or other debris. A snake's striking distance is about 1/2 the total length of the snake. If bitten, note the color and shape of the snake's head to help with treatment. Keep bite victims still and calm to slow the spread of venom in case the snake is poisonous. Seek medical attention as soon as possible. Do not cut the wound or attempt to suck out the venom. Apply first aid by laying the person down so that the bite is below the level of the heart, and cover the bite with a clean, dry dressing.

HEAT ILLNESS PREVENTION

Extreme temperatures are possible on this project. Prepare accordingly and pay special attention to weather conditions. At the site:

- Wear light-colored, breathable clothing such as cotton, and liberally apply sunscreen.
- Gradually build up to heavy work.
- Schedule heavy work during the coolest parts of day.
- Take breaks when doing heavier work, and in high heat and humidity. Look for shade or cooler areas.
- Drink water frequently. Drink enough water that you never become thirsty.
- Be aware that protective clothing or personal protective equipment may increase the risk of heat-related illnesses.

Watch for symptoms of heat-related injury/illness:

Heat Stroke - Heat stroke is the most serious heat-related disorder. It occurs when the body becomes unable to control its temperature: the body's temperature rises rapidly, the sweating mechanism fails, and the body is unable to cool down. When heat stroke occurs, the body temperature can rise to 106 degrees Fahrenheit or higher within 10 to 15 minutes. Heat stroke can cause death or permanent disability if emergency treatment is not given. Symptoms of heat stroke include:

Hot, dry skin or profuse sweating

- Hallucinations
- Chills
- Throbbing headache
- High body temperature
- Confusion/dizziness
- Slurred speech

First Aid

- Call 911 and notify their supervisor.
- Move the sick worker to a cool shaded area.
- Cool the worker using methods such as:
- Soaking their clothes with water.
- Spraying, sponging, or showering them with water.
- Fanning their body.

Heat Exhaustion - Heat exhaustion is the body's response to an excessive loss of the water and salt, usually through excessive sweating. Workers most prone to heat exhaustion are those that are elderly, have high blood pressure, and those working in a hot environment. Symptoms of Heat Exhaustion Include:

- Heavy sweating
- Extreme weakness or fatigue
- Dizziness, confusion
- Nausea
- Clammy, moist skin
- Pale or flushed complexion
- Muscle cramps

- Slightly elevated body temperature
- Fast and shallow breathing

First Aid

- Have them rest in a cool, shaded or air-conditioned area.
- Have them drink plenty of water or other cool, nonalcoholic beverages.
- Have them take a cool shower, bath, or sponge bath.

Heat Cramps - Heat cramps usually affect workers who sweat a lot during strenuous activity. This sweating depletes the body's salt and moisture levels. Low salt levels in muscles causes painful cramps. Heat cramps may also be a symptom of heat exhaustion. Symptoms include muscle pain or spasms usually in the abdomen, arms, or legs.

First Aid

- Stop all activity, and sit in a cool place.
- Drink clear juice or a sports beverage.
- Do not return to strenuous work for a few hours after the cramps subside .
- Seek medical attention if any of the following apply:
 - The worker has heart problems.
 - The worker is on a low-sodium diet.
 - The cramps do not subside within one hour.

ENVIRONMENTAL CONTAMINANTS

Initial air monitoring shall be performed outside the work zone to establish baseline level for chemicals of concern. Perimeter air monitoring shall be performed downwind of soil disturbance activities. Employees likely to have the highest exposure include but are not limited to those involved in excavation and manual digging under or around suspected underground storage tanks, sampling soils, stockpiling of excavated soil, and removal of soil from the site for analysis. Representative air monitoring may also be conducted at the discretion of the Project Manager to identify any areas where site activities may result in significant dust generation. Periodic monitoring shall be conducted when significant dust generation has occurred or when there is indication that exposures may have risen over permissible exposure limits (PEL). Real-time monitoring in work zone areas will be conducted under the following conditions:

Prior to the beginning of any new job task; Prior to the beginning of a job task in any new area; Periodically for a long-term job task; During an activity which would have the highest probability of worker; Visible presence of contamination; Discretionary decision of the Project Manager or HSO.

Air Monitoring Instrumentation & Response

Photo-ionization Detectors and/or Multi-Gas meters may be used on site to determine the presence of volatile hydrocarbons. Affected staff will be trained as to specific operation of the instruments and know the exposure levels at which protective actions are required. All instruments must be properly calibrated. Background readings shall be taken outside the work zone prior to commencement of work.

Action Level (active construction work area)	Level of Protection	Action to be Taken
Background (BKGD) to 5 units above BKGD – PID measurement	Construction work clothing	Continue working using Good Work practices.
Greater than 5 units above BKGD – PID measurement for greater than 5 minutes duration.	Level C PPE	Personnel must be in Level C PPE. Ventilate to reduce level. Check perimeter.
Visible dust or downwind dust greater than 1 mg/m3 above upwind dust	Level C PPE	Use dust control (water, plastic sheeting)
Greater than 1 unit above BKGD continuously for 15 minutes.	Construction work clothing	Stop work and take measures to reduce vapors (plastic sheeting, ventilation)

Utilities and Preparing the Work Area

- Before digging the work area must be as clear and level as possible.
- No digging shall begin until the location of all utilities above and below ground are known. Utilities should be confirmed on the boring/drilling location plans.
- Ensure boom clearance on the excavator.
- Assume all wires are live.
- Excavation should not be considered if there are power lines within 10 feet of the boom.
- Remain outside the potential swing radius if possible. Ensure a safe distance in the event a boom or rig tips over or flying debris.
- When checking spoils with PID, ensure clearance with the boom or visually communicate with the operator.
- Establish hand signals before operation.

Excavation

- Before starting the engine, the rig should be inspected. Ensure the brakes are set, the rig has been properly balanced and stabilized, and all other controls are in place.
- Hearing protection should be used.
- Ensure proper exhaust ventilation, especially around a PID taking measurements.
- Entry into excavations deeper than 5ft is not permitted without approved shoring techniques.
- Entry into the excavation is not anticipated by Schnabel Engineering.

Spoils

- Personal Protective Equipment is required at all times.
- Appropriate levels of PPE should be determined at the initial site survey.
- At a minimum, Level D is required.
- Any cores suspected of containing contaminants must be handled wearing chemical resistant gear.
- A Material Safety Data Sheet for gasoline is attached to this document for review.
- The spoil shall be constantly monitored for contamination. All employees shall evacuate the immediate area should the VOC level reach 500 ppm.

TRAINING & MEDICAL MONITORING

All personnel that meet the definition as outlined in 29 CFR 1910.120(f)(1)(i) that are engaged in on-site activities on this project must have baseline physical examinations and be participants in their employer's medical surveillance program. This program must meet the requirements of 29 CFR 1910.120(f). Medical procedures beyond baseline physical and routine medical surveillance are not planned for this project. Medical records for employees are maintained at the corporate office and by the company's contracted medical group, WorkCare. Medical records are maintained in accordance with the record keeping requirements of 29 CFR 1910.20. Additionally, any employee required to wear a respirator for Level C PPE or above must be approved by a licensed health care provider for respirator use as defined in the OSHA Respiratory Standard 29 CFR 1910.134. In the unlikely event of an exposure event occurring, the affected employee will be sent for any evaluation and/or treatment at a designated health care facility. Initial site briefing will be provided on-site by the Project Manager or his /her designee for all Project Personnel. Site training will also be provided on an as needed basis to specifically address the activities, procedures, monitoring, and equipment for the site operations. Such training will include site and facility layout, hazards, and emergency services at the site, and will detail all provisions contained within this HASP.

SECURITY

Prior to mobilization, and if applicable, ensure that entry rights to residential properties were secured. Take heed when accessing the properties, and wear Schnabel-logoed gear. Observe all potential work areas prior to accessing for signs of dogs or other aggressive pets. Ensure that other members of staff know your work locations and communicate regularly. All vehicles must have adhesive or magnetic logos on each side of vehicles. Address specific concerns to the project manager and/or the Client POC. Do not engage with aggressive neighbors, remain polite and calm and if threatened, cease operations and leave the scene immediately to contact the Schnabel Project Manager or Client liaison.

This document is an augmentation of the Schnabel Engineering Safety First Program found on the company's intranet. For information regarding this operation or any other associated with Schnabel Engineering field services, access the company intranet site, SLICE/Safety, the Project Manager or contact the H&S Officer at (804) 264-3222.

APPENDIX C

CERTIFICATE OF UST DISPOSAL



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

TANK DISPOSAL CERTIFICATE

Tank Owner: NC Department of Transportation

Site Address: US Highway 158 and Acorn Hill Road Sunbury, NC

Description of Tanks:

<u>Tank</u> Number	Size of Tank	<u>Contents</u>
1	1,000 Gallons	Gasoline
2	550 Gallons	Gasoline
3	550 Gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 102326

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to Morgan's Corner Recycling, 1576 Millpond Road, Elizabeth City, NC for proper disposal and recycling.

Signature

Thomas W. Hammett CEO Evo Corporation

APPENDIX D SOIL, WATER, AND SLUDGE DISPOSAL MANIFESTS



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1,235 gallons of non-hazardous contaminated water received on 10/17/2023 from:

- Generator: NC Department of Transportation
- Originating at: US Highway 158 and Acorn Hill Road Sunbury, NC

EC Waste ID #: 102326

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

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 3.29 tons of non-hazardous contaminated material received on 10/19/2023 from:

ansportation
r

Originating at: US Highway 158 and Acorn Hill Road Sunbury, NC

EC Waste ID #: 102326

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

Long W. Hamel

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. 20761
		ATOR INFORM	IATION	
Generator:			Phone: _	919-707-6871
Site Address:	y 158 & Acorn	Hill Road		
City/State: Sunbu			Contact:	Craig Haden
	MATERIAL DESC	RIPTION / QUA	NTITY / WI	EIGHT
Gross Weight (lbs):		Material:	Wat	ет
Empty Weight (lbs):		Contaminant:	Gase	oline/Diesel
Net Weight (lbs):			******	
Quantity	1235	Tons Drum	s Pails	Sacs Yards Other:
	TRANSP	ORTER INFOR	MATION	
Transporter: Dro Co	rporation	***	Phone: _	336-725-5844
Truck #:		99-5-9489-0-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-6-4-4-6-	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: Jui 1 Mye		10-17-23								
Evo Corporation	Evo Project #:	102326								
1703 Vargrave Street	Phone:	336-725-5844								
Winston-Salem NC 2710		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	Date: 101	117/23								
White/Facility	Canary/Invoice	Pink/Carrier								

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #		Manifest No. 18498
GENERATOR INFORM	IATION	
Generator:	Phone:	919-707-6871
Site Address: US Hwy 158 & Acorn Hill Road		
City/State: Sunbury, NC	Contact:	Craig Haden
MATERIAL DESCRIPTION / QUA	NTITY / WE	IGHT
Gross Weight (lbs): 34220 Material:	Soil	
Empty Weight (lbs): <u>27640</u> Contaminant:	Gas	oline/Diesel
Net Weight (lbs): 6580		
Quantity 3.29 Tons Drum	s Pails S	acs Yards Other:
TRANSPORTER INFORI	MATION	
Transporter: Evo Corporation	Phone:	336-725-5844
Truck #:/04	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.

1

Driver Signature: Attacco FACILITY INFORM	· · · · · · · · · · · · · · · · · · ·	0-1923
Triangle Area Earth Corporation	Evo Project #:	102326
336 Denton Iane	Phone:	919-980-6200
Zebulon, NC 27597	Contact:	Iaura Buchanan
I certify that the carrier has delivered the materials described material for treatment and/or disposal in a manner that has be		
Facility Signature:	Date: 10	-19-23

Evo Corporation, 2008

White/Facility

Canary/Invoice

Pink/Carrier

Foss Recycling Winston Salem 3459 Thomasville Road Winston-Salem, NC 27107 Phone : (336) 788-9122



PAGE : 1

DISHER TONY EVO TRUCKING WINSTON SALEM NC	Ticket No. : 17021973 Scale: 88 In : 19 Oct 2023 1:28 pm Supplier-# : DIS040
	Plate No. : EVO Vehicle : TRUCK 104 Served By : rgonzales
laterial	Gross Tare Wt Adj Net Weight
CATCH WEIGHTS	34,220 34,220 LB
Comments: paid \$5	NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30 CHASE NDREW TH JED - 1024
	UNVALID UNLESS SIGNED
	Mission: Excellence in Recycling Core Values: Honesty/Integrity, Customer Experience, Hardworking, Accountability
	Asperational Value: Glorify God By

APPENDIX E LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY



Pace Analytical Services, LLC 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

October 27, 2023

Lisa Kowalczyk Schnabel Engineering 1133 Military Cutoff Road Suite 210 Wilmington, NC 28405

RE: Project: 23290032.001 Pace Project No.: 92694374

Dear Lisa Kowalczyk:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor M Cannon taylor.cannon@pacelabs.com 704-977-0943 Project Manager

Enclosures

cc: Jacob Wessell, Schnabel Engineering





Pace Analytical Services, LLC 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

 Project:
 23290032.001

 Pace Project No.:
 92694374

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 9800 Kincey Ave. Ste 100, Huntersville, NC 28078 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001 South Carolina Drinking Water Cert. #: 99006003 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 Louisiana DoH Drinking Water #: LA029 Virginia/VELAP Certification #: 460221



SAMPLE ANALYTE COUNT

 Project:
 23290032.001

 Pace Project No.:
 92694374

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92694374001	 Т1-В1	EPA 8015C	— —	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374002	T1-B2	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374003	T2-B1	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374004	T2-B2	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374005	T3-B1	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374006	Т3-В2	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C
92694374007	T1-P1	EPA 8015C	НН	2	PASI-C
		EPA 8015C	TEG	2	PASI-C
		SW-846	KDF	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte



Project: 23	3290032.001									
Pace Project No.: 92	2694374									
Sample: T1-B1		Lab ID: 926	94374001	Collected: 10/17/2	3 14:1	5 Received: 10)/19/23 09:03 N	latrix: Solid		
Results reported on a	a "dry weight" l	basis and are adj	usted for per	cent moisture, sa	mple s	ize and any dilu	tions.			
Paramete	ers	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diese	I	Analytical Method: EPA 8015C Preparation Method: EPA 3546								
		Pace Analytica	I Services - C	harlotte						
Diesel Range Organics Surrogates	s(C10-C28)	39.4	mg/kg	6.1	1	10/25/23 13:40	10/26/23 11:05			
n-Pentacosane (S)		89	%	10-133	1	10/25/23 13:40	10/26/23 11:05	629-99-2		
Gasoline Range Orga	inics	Analytical Meth	nod: EPA 8015	5C Preparation Me	thod: E	EPA 5030B				
		Pace Analytica	I Services - C	harlotte						
Gas Range Organics (<i>Surrogates</i>	C6-C10)	567	mg/kg	9.4	1	10/23/23 14:34	10/24/23 00:05			
4-Bromofluorobenzene	e (S)	178	%	66-130	1	10/23/23 14:34	10/24/23 00:05	460-00-4	S5	
Percent Moisture		Analytical Meth	nod: SW-846							
		Pace Analytica	I Services - C	harlotte						
Percent Moisture		19.4	%	0.10	1		10/22/23 19:06		N2	



23290032.001

Project:

Percent Moisture

Percent Moisture

10/22/23 19:06

Qual

D6

D3

S2

N2

ANALYTICAL RESULTS

0.10

1

Pace Project No.: 92694374							
Sample: T1-B2	Lab ID: 926	94374002	Collected: 10/17/2	3 14:2	5 Received: 10	/19/23 09:03	Matrix: Solid
Results reported on a "dry weight"	basis and are adj	iusted for per	rcent moisture, sa	mple s	size and any dilut	tions.	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.
8015 GCS THC-Diesel	Analytical Met Pace Analytica		5C Preparation Me harlotte	thod: I	EPA 3546		
Diesel Range Organics(C10-C28) <i>Surrogates</i>	32.0	mg/kg	6.7	1	10/25/23 13:40	10/26/23 11:21	I
n-Pentacosane (S)	82	%	10-133	1	10/25/23 13:40	10/26/23 11:21	629-99-2
Gasoline Range Organics	Analytical Met Pace Analytica		5C Preparation Me harlotte	thod: I	EPA 5030B		
Gas Range Organics (C6-C10) Surrogates	936	mg/kg	30.7	4	10/24/23 12:02	10/25/23 05:21	1
4-Bromofluorobenzene (S)	154	%	66-130	4	10/24/23 12:02	10/25/23 05:22	1 460-00-4

Analytical Method: SW-846

24.6

Pace Analytical Services - Charlotte

%



Project: 23290032.001 Pace Project No.: 92694374								
Sample: T2-B1	Lab ID: 9269	4374003	Collected: 10/17/2	3 14:45	6 Received: 10)/19/23 09:03	Matrix: Solid	
Results reported on a "dry weight"	basis and are adju	isted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Meth Pace Analytical		15C Preparation Me Charlotte	thod: E	PA 3546			
Diesel Range Organics(C10-C28) <i>Surrogates</i>	21.0	mg/kg	6.2	1	10/25/23 13:40	10/26/23 11:37	7	
n-Pentacosane (S)	88	%	10-133	1	10/25/23 13:40	10/26/23 11:37	7 629-99-2	
Gasoline Range Organics	Analytical Meth Pace Analytical		15C Preparation Me Charlotte	thod: E	PA 5030B			
Gas Range Organics (C6-C10) <i>Surrogates</i>	642	mg/kg	31.5	4	10/24/23 12:02	10/25/23 05:47	7	D3
4-Bromofluorobenzene (S)	107	%	66-130	4	10/24/23 12:02	10/25/23 05:47	7 460-00-4	
Percent Moisture	Analytical Meth Pace Analytical							
Percent Moisture	19.5	%	0.10	1		10/22/23 19:06	6	N2



,	290032.001 2694374								
Sample: T2-B2		Lab ID: 926	94374004	Collected: 10/17/2	3 15:00	Received: 10)/19/23 09:03 I	Matrix: Solid	
Results reported on a	"dry weight" b	oasis and are adj	usted for pe	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameter	rs	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Meth	nod: EPA 80 ²	15C Preparation Me	thod: E	PA 3546			
		Pace Analytica	Services -	Charlotte					
Diesel Range Organics Surrogates	(C10-C28)	18.1	mg/kg	6.2	1	10/25/23 13:40	10/26/23 11:37		
n-Pentacosane (S)		81	%	10-133	1	10/25/23 13:40	10/26/23 11:37	629-99-2	
Gasoline Range Organ	nics	Analytical Meth	nod: EPA 80 ⁷	15C Preparation Me	thod: E	EPA 5030B			
		Pace Analytica	Services - (Charlotte					
Gas Range Organics (C Surrogates	C6-C10)	889	mg/kg	25.2	2.5	10/24/23 12:02	10/25/23 04:55	5	
4-Bromofluorobenzene	(S)	117	%	66-130	2.5	10/24/23 12:02	10/25/23 04:55	5 460-00-4	
Percent Moisture		Analytical Meth	nod: SW-846						
		Pace Analytica	Services -	Charlotte					
Percent Moisture		20.8	%	0.10	1		10/22/23 19:06	6	N2



Project: 23290032.00 Pace Project No.: 92694374	1								
Sample: T3-B1	Lab ID: 926	94374005	Collected: 10/17/2	3 15:1	0 Received: 10)/19/23 09:03 N	/latrix: Solid		
Results reported on a "dry weig	ht" basis and are ad	justed for p	ercent moisture, sa	mple s	size and any dilu	tions.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel	Analytical Met	hod: EPA 80	15C Preparation Me	thod: E	EPA 3546				
	Pace Analytica	al Services -	Charlotte						
Diesel Range Organics(C10-C28) Surrogates	13.2	mg/kg	6.2	1	10/25/23 13:40	10/26/23 11:52			
n-Pentacosane (S)	90	%	10-133	1	10/25/23 13:40	10/26/23 11:52	629-99-2		
Gasoline Range Organics	Analytical Met	Analytical Method: EPA 8015C Preparation Method: EPA 5030B							
	Pace Analytica	al Services -	Charlotte						
Gas Range Organics (C6-C10) <i>Surrogates</i>	661	mg/kg	9.1	1	10/23/23 14:34	10/24/23 01:48			
4-Bromofluorobenzene (S)	130	%	66-130	1	10/23/23 14:34	10/24/23 01:48	460-00-4	S5	
Percent Moisture	Analytical Met Pace Analytica								
Percent Moisture	20.2	%	0.10	1		10/22/23 19:06		N2	



Project: 23290032.001 Pace Project No.: 92694374								
Sample: T3-B2	Lab ID: 926	94374006	Collected: 10/17/2	3 15:3	0 Received: 10)/19/23 09:03 N	Matrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for pe	rcent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel			5C Preparation Me	thod: E	EPA 3546			
	Pace Analytica	I Services - (Charlotte					
Diesel Range Organics(C10-C28) Surrogates	21.0	mg/kg	6.4	1	10/25/23 13:40	10/26/23 11:52		
n-Pentacosane (S)	86	%	10-133	1	10/25/23 13:40	10/26/23 11:52	629-99-2	
Gasoline Range Organics	Analytical Metl	nod: EPA 801	5C Preparation Me	thod: E	EPA 5030B			
	Pace Analytica	I Services - 0	Charlotte					
Gas Range Organics (C6-C10) <i>Surrogates</i>	1640	mg/kg	31.8	4	10/24/23 12:02	10/25/23 06:12		
4-Bromofluorobenzene (S)	126	%	66-130	4	10/24/23 12:02	10/25/23 06:12	460-00-4	
Percent Moisture	Analytical Metl	nod: SW-846						
	Pace Analytica	I Services - 0	Charlotte					
Percent Moisture	21.3	%	0.10	1		10/22/23 19:07		N2



Project: 2329003 Pace Project No.: 9269437						
Sample: T1-P1	Lab ID: 926943740	07 Collected: 10/17/2	3 15:40 Rece	eived: 10/19/23 09	9:03 Matrix: Solid	
Results reported on a "dry w	veight" basis and are adjusted f	or percent moisture, sa	mple size and	any dilutions.		
Parameters	ResultsUni	s Report Limit	DF Pre	epared Analy	yzed CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EP	8015C Preparation Me	thod: EPA 354	6		
	Pace Analytical Servic	es - Charlotte				
Diesel Range Organics(C10-C Surrogates	28) ND mg/	g 6.5	1 10/25/	/23 13:40 10/26/23	3 12:08	
n-Pentacosane (S)	69 %	10-133	1 10/25/	/23 13:40 10/26/23	3 12:08 629-99-2	
Gasoline Range Organics	Analytical Method: EP	8015C Preparation Me	thod: EPA 503	0 B		
	Pace Analytical Servic	es - Charlotte				
Gas Range Organics (C6-C10 <i>Surrogates</i>) ND mg/	kg 9.5	1 10/24/	/23 11:57 10/24/23	3 16:55	
4-Bromofluorobenzene (S)	90 %	66-130	1 10/24/	/23 11:57 10/24/23	3 16:55 460-00-4	
Percent Moisture	Analytical Method: SW Pace Analytical Servic					
Percent Moisture	23.1 %	0.10	1	10/22/23	3 19:07	N2



QUALITY CONTROL DATA

Project: 23290032.001 Pace Project No.: 92694374							
QC Batch: 808194		Analysis Metho	od: E	PA 8015C			
QC Batch Method: EPA 5030B		Analysis Descr		asoline Range (Organics		
		Laboratory:	Р	ace Analytical S	ervices - Charlo	otte	
Associated Lab Samples: 926943740	001, 92694374005						
METHOD BLANK: 4184672		Matrix: S	olid				
Associated Lab Samples: 926943740	001, 92694374005						
		Blank	Reporting				
Parameter	Units	Result	Limit	Analyzed	Qualifie	rs	
Gas Range Organics (C6-C10)	mg/kg	ND	5.9				
4-Bromofluorobenzene (S)	%	90	66-130	10/23/23 17:1	3		
LABORATORY CONTROL SAMPLE:	4184673						
			CS	LCS	% Rec		
Parameter	Units	Conc. Re	sult	% Rec	Limits	Qualifiers	
Gas Range Organics (C6-C10) 4-Bromofluorobenzene (S)	mg/kg %	49.5	47.2	95 94	70-130 66-130		
MATRIX SPIKE SAMPLE:	4184675		0.1				
Parameter	Units	92694409002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	19.3		99.0	117	57-154	Qualifiers
4-Bromofluorobenzene (S)	%	19.0	00.3	99.0	94	66-130	
SAMPLE DUPLICATE: 4184674							
Deverseter	1 100 14-	92694409001	Dup Degult	000	Qualifian		
Parameter	Units	Result	Result	RPD	Qualifiers	_	
Gas Range Organics (C6-C10) 4-Bromofluorobenzene (S)	mg/kg %	20.9 91	21 <u>.</u> 6 92		3		
	70	31	92				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	23290032.001							
Pace Project No.:	92694374							
QC Batch:	808422		Analysis M	ethod:	EPA 8015C			
QC Batch Method:	EPA 5030B		Analysis De	escription:	Gasoline Range	Organics		
			Laboratory	: 1	Pace Analytical S	Services - Char	lotte	
Associated Lab San	nples: 92694374	4007						
METHOD BLANK:	4185861		Matrix	k: Solid				
Associated Lab San	nples: 92694374	4007						
			Blank	Reporting				
Paran	neter	Units	Result	Limit	Analyzed	Qualifie	ers	
Gas Range Organic	s (C6-C10)	mg/kg	NE					
4-Bromofluorobenze	ene (S)	%	91	66-13	0 10/24/23 15:	12		
LABORATORY COM	NTROL SAMPLE:	4185862						
5			Spike	LCS	LCS	% Rec		
Paran		Units	Conc	Result	% Rec	Limits	Qualifiers	
Gas Range Organic		mg/kg	49.8	46.0	92	70-130		
4-Bromofluorobenze	ene (S)	%			93	66-130		
		4185864						
MATRIX SPIKE SAI	MPLE:	4185864	9269437400)7 Spike	MS	MS	% Rec	
Paran	neter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Gas Range Organic	cs (C6-C10)	mg/kg		ND 78.8	114	144	57-154	
4-Bromofluorobenze		%				94		
SAMPLE DUPLICA	TE: 4185863							
			92694409015	Dup				
D	notor	Units	Result	Result	RPD	Qualifiers		
Paran	neter							
Gas Range Organic		mg/kg %	NE		 D			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	23290032.001							
Pace Project No.:	92694374							
QC Batch:	808424		Analysis Me	thod: E	PA 8015C			
QC Batch Method:	EPA 5030B		Analysis De	scription: G	Sasoline Range	Organics		
			Laboratory:	P	ace Analytical S	Services - Charl	otte	
Associated Lab Sar	nples: 92694374	4002, 92694374003	3, 92694374004, 9	2694374006				
METHOD BLANK:	4185898		Matrix	Solid				
Associated Lab Sar	nples: 92694374	4002, 92694374003	3, 92694374004, 9	92694374006				
			Blank	Reporting				
Parar	neter	Units	Result	Limit	Analyzed	Qualifie	rs	
Gas Range Organic	s (C6-C10)	mg/kg	ND	6.0	0 10/24/23 15:	38		
4-Bromofluorobenze	ene (S)	%	92	66-130	0 10/24/23 15:	38		
LABORATORY COI	NTROL SAMPLE:	4185899						
Parar	notor	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
							Quaimers	
Gas Range Organic		mg/kg	49.8	45.4	91	70-130		
4-Bromofluorobenze	ene (5)	%			94	66-130		
MATRIX SPIKE SAI	MPLE:	4185901						
			92694377010) Spike	MS	MS	% Rec	
Parar	neter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Gas Range Organic	s (C6-C10)	 mg/kg		ND 79.7	106	133	57-154	
4-Bromofluorobenze		%				96		
SAMPLE DUPLICA	TE: 4185900							
_			92694377009	Dup				
Parar	neter	Units	Result	Result	RPD	Qualifiers		
					-			
Gas Range Organic 4-Bromofluorobenze		mg/kg %	ND 90	ND 90			_	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	23290032.001							
Pace Project No.:	92694374							
QC Batch:	808741		Analysis Met	thod: E	PA 8015C			
QC Batch Method:	EPA 3546		Analysis Des	scription: 8	015 Solid GCS	V		
			Laboratory:	F	ace Analytical S	Services - Char	lotte	
Associated Lab Sar	nples: 9269437	4001, 92694374002	, 92694374003, 9	92694374004, 9	92694374005, 9	2694374006, 9	2694374007	
METHOD BLANK:	4187702		Matrix:	Solid				
Associated Lab Sar	nples: 92694374	4001, 92694374002	, 92694374003, 9 Blank	2694374004, 9 Reporting	92694374005, 9	2694374006, 9	2694374007	
Parar	neter	Units	Result	Limit	Analyzed	Qualifie	ers	
Diesel Range Organ	nics(C10-C28)	mg/kg	ND	5.0				
n-Pentacosane (S)		%	93	10-133	3 10/26/23 10:4	49		
LABORATORY CO	NTROL SAMPLE:	4187703						
			Spike	LCS	LCS	% Rec		
Parar	neter	Units	Conc. I	Result	% Rec	Limits	Qualifiers	
Diesel Range Orga	nics(C10-C28)	mg/kg	66.2	52.0	78	43-130		
n-Pentacosane (S)		%			81	10-133		
MATRIX SPIKE SA	MPI F [.]	4187704						
			92694374001	Spike	MS	MS	% Rec	
Parar	neter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Diesel Range Orga	nics(C10-C28)	mg/kg	39	.4 83.5	129	108	3 <u>15-130</u>	
n-Pentacosane (S)		%				84	10-133	
SAMPLE DUPLICA	TE: 4187705							
			92694374002	Dup				
Parar	neter	Units	Result	Result	RPD	Qualifiers		
Diesel Range Orga	nics(C10-C28)	mg/kg	32.0	19.9) 4	7 D6		
n-Pentacosane (S)	()	%	82	86				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 23290032.0	001					
Pace Project No.: 92694374						
QC Batch: 808096		Analysis Meth	od: S	SW-846		
QC Batch Method: SW-846		Analysis Desc	ription: I	Dry Weight/Pe	rcent Moisture	
		Laboratory:	I	Pace Analytica	Services - Charlotte	
Associated Lab Samples: 926	694374001, 9269437400	02, 92694374003, 92	694374004,	92694374005,	92694374006, 926943	374007
	- 4					
SAMPLE DUPLICATE: 418427	/1					
Deremeter	Linita	92694374001	Dup Booult	חחם	Qualifiara	
Parameter	Units	Result	Dup Result	RPD	Qualifiers	
Parameter Percent Moisture	Units%				Qualifiers 2 N2	
		Result	Result			
	%	Result	Result			
Percent Moisture	%	Result	Result			
Percent Moisture	%		Result 19.			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:	23290032.001
Pace Project No.:	92694374

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
- S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	23290032.001
Pace Project No.:	92694374

Lab ID	Sample ID QC Batch Method		QC Batch	Analytical Method	Analytical Batch	
92694374001	 T1-B1	EPA 3546	808741	EPA 8015C	808993	
92694374002	T1-B2	EPA 3546	808741	EPA 8015C	808993	
92694374003	T2-B1	EPA 3546	808741	EPA 8015C	808993	
92694374004	T2-B2	EPA 3546	808741	EPA 8015C	808993	
92694374005	T3-B1	EPA 3546	808741	EPA 8015C	808993	
92694374006	T3-B2	EPA 3546	808741	EPA 8015C	808993	
92694374007	T1-P1	EPA 3546	808741	EPA 8015C	808993	
92694374001	T1-B1	EPA 5030B	808194	EPA 8015C	808245	
92694374002	T1-B2	EPA 5030B	808424	EPA 8015C	808460	
92694374003	T2-B1	EPA 5030B	808424	EPA 8015C	808460	
92694374004	T2-B2	EPA 5030B	808424	EPA 8015C	808460	
92694374005	T3-B1	EPA 5030B	808194	EPA 8015C	808245	
92694374006	Т3-В2	EPA 5030B	808424	EPA 8015C	808460	
92694374007	T1-P1	EPA 5030B	808422	EPA 8015C	808459	
92694374001	T1-B1	SW-846	808096			
92694374002	T1-B2	SW-846	808096			
92694374003	T2-B1	SW-846	808096			
92694374004	T2-B2	SW-846	808096			
92694374005	T3-B1	SW-846	808096			
92694374006	T3-B2	SW-846	808096			
92694374007	T1-P1	SW-846	808096			

Pace	DC#_Title: ENV-FRM-HUN1	-0083 v	02_Sa	mple Co	ondition Upon Receipt
1 112 CT 11 124 CTS	Effective Date: 11/14/2022				
Laboratory rece Asheville	Eden Greenwood Hu tion Client Name:			Raleigh[Mechanicsville Atlanta Kernersville
Courier:	Fed Ex UPS Pace	USPS Other:		Clie	
Custody Seal Pre	sent? ☐Yes √No Seals Int;	act?	☐Yes	ΜNο	Date/Initials Person Examining Contents:
Packing Material Thermometer: IR Gu Cooler Temp:	n ID: 927070 3.7 Correction Factor: Add/Subtract (°C)	Bags Type of Ice	□None :: Øv	/	Temp should be above freezing to 6°C
Did samples or	rrected (°C): <u>3.7</u> Soil (\square N/A, water sample) riginate in a quarantine zone within the Uni	ted States:	: CA, NY, o	or SC	Samples out of temp criteria. Samples on ice, cooling process has begun Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
	tody Present?	Ves	No		Comments/Discrepancy: 1.
	ived within Hold Time?	Y es	□No	□n/a	2.
1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lime Analysis (<72 hr.)?	□Yes	V No	□n/A	3.
Rush Turn A	round Time Requested?	Yes	MNO	□n/A	4.
Sufficient Vo	plume?	TYes	No	□n/a	S.
	tainers Used? htainers Used?	Yes Yes		□n/A □n/A	6.
Containers I		Yes			7.
Dissolved an	nalysis: Samples Field Filtered?	□ Yes	No		8.
	els Match COC? Date/Time/ID/Analysis Matrix:5L				9.
Headspace i	n VOA Vials (>5-6mm)?	□Yes	ΠNo		10.
Trip Blank P	resent?	☐ Yes	No	MN/A	11.
Trip Blank C	ustody Seals Present?	Yes	□No	MN/A	
COMMENTS/SAMP	LE DISCREPANCY				Field Data Required? Yes No
CLIENT NOTIFICATIO	DN/RESOLUTION			L	Lot ID of split containers:
Person contacted	d:			Date/Time	2:
Project Mana	ger SCURF Review:				Date:
Project Mana	ger SRF Review:				

DC#_Title: ENV-FRM-HUN1-0083 v02	Sample Condition Upon Receipt
----------------------------------	-------------------------------

Project #

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

t Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H25O4 (pH < 2)	AG3S-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl·)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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3	\backslash				\backslash	\setminus	\backslash	\backslash	1		\backslash		\sum	\backslash	\langle					ж	3			\sum	$\overline{)}$			
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5	\backslash				\square	\sum	\sum	\sum	Ī		$\overline{)}$		7	\square	$\overline{\ }$				-		3			$\overline{)}$	$\overline{)}$			
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11	$\left \right\rangle$				$ \left[\right] $		$\left\{ \right\}$						\leftarrow	\leftarrow	\sim													
12	\square				$\left\{ \right\}$	$\left(\right)$	\sim	\sim			$ \rightarrow $		$\overline{\ }$	\vdash	\sum													

1 - D.C		рн Ас	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#:92694374

Due Date: 10/30/23

PM: TMC

CLIENT: Schnabel

	ENV-FRM-CORQ-0019_v01_082123 ©	onditions/	urce/pace-terms-and-co	ary/resou	ource-libr	elabs.com/res	nd at https://www.pace	Conditions four	Terms and C	ince of the Pace	nd accepta	wledgment a	suumitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/	pie via this ch	Summers Parameters
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	Tracking Number:	23 1153	Date/Time:		5	Pure	WWW NUM		4411	56/31/01	10		- All	() (Sienhture	Relinguished by/Com
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Preser	Sample Comment		GRO	DRO	Containers Plastic Glass	CL2 Plasti	ate Time	Date	(or Composite Start) Date Time	(or Compo Date	Grab	Matrix *	Customer Sample ID	Custon	
vation r	Prelog / Bottle Ord. ID: EZ 3012278				ay (b), vapor (v), Number & Type of	, pioassay (b),	ch wibe (wr), lissue (is	of ito 'fect nited	icted	Collected	Comp /		Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk Comp. / Collected Comp. / Number & Type o	e Water (SW),	Other (OT), Surfac
								Analysis:	oduct (D) coll/o	o Water /w/w/ Dr	ed:	Requested:	box below): Drinking Water (DW). c	sert in Matrix	• Matrix Codes (Ir
forma nple.					I IND		Field Filtered (if applicable): 1 Yes	Fie		1 Annel 1 4	alts 10 a	Date Results			
ance id	e Only Table #:					applicable:	SID # or WW Permit # as a	DW PWS	quired): 1 Other	Rush (Pre-approval required):	Rush ([] 2 Da	3	2	[] EQUIS
lentified	AcctNum / Client ID:						Surve	closu	as applicable:	NCVEQUIATORY Program (DW, RCRA, etc.) as applicable:	N Program	Kegulato	III []LeveIIV	[]Level III	() Level II
l for	Proj. Mgr:		-				arolina): North Carolina	gin of sample(s)	County / State origin of sample(s):		Å	[]PT []MT []CT	ted: [] AK	Time Zone Collected:
c Acid, (10)	NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other	Analysis Requested	I I I Ana							Quote #:			0000	11 0	
(7)	H2504, (4) HCl, (5) NaOH, (6) Zn Acetate, (7)									applicable):			202 (5	
	TerraCore, (9) Other	ner Preservative Tune**	Identify Conta						(1	Purchase Order # (if			s applicable);	lo/Facility ID (a	Site Collection Info/Facility ID (as applicable):
50mL, (4) vre, (8)	**Container Size: (1) 1L, (2) S00mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8)	Specify Container Size **	Specify				,.com	jwessell@schnabel-eng.com	Jwessell	INVOICE E-IVIAII.			122.001	200777	
<u>,</u>		in the	Contraction of the local data					essell	Jacob Wessell	Invoice To:			1 OC PC OCLACP		Customer Project #: Project Name:
	ructions	Scan QR Code for instructions					eng.com	lkowalczyk@schnabel-eng.com	Ikowalcz	E-Mail: Cc E-Mail:			200	2	
Page								-1621		Phone #:		NC 28405	1133 Military Cutoff Road, Wilmington, NC 28405	1133 M	Street Address:
e 2			論語のなな					Jalovuk	0: lisa Kowalozyk	Contact/Report To:			Schnabel-Wilmington	Schnab	Company Name:
0 of 20	order/Login Label Here	LAB USE ONLY- Affix Workorder/Login Label Here		· ·	Ŧ	Documer	CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields	DY Analy	-CUSTO	CHAIN-OF		C 28078	Pace [®] Location Requested (City/State): Pace Analytical Charlotte 9800 Kincey Ave. Suite 100, Huntersville, NC 28078		(Pace.

in the second

APPENDIX F SITE PHOTOS



Photograph 1: View of site prior to closure activities.



Photograph 2: Unoccupied outbuilding on site.



Photograph 3: Second unoccupied outbuilding on site.



Photograph 4: Anomaly area identified with GPR adjacent to corner pole.

Hand- augured, no tank found.



Photograph 5: Marked broadband utility services



Photograph 6: Marked water services.



Photograph 7: Tank 1 excavation pit, showing single pipe from tank





Photograph 9: Tank pit 1 post-tank excavation.



Photograph 10: Tanks 2 and 3 excavation pit adjacent to Acorn Hill Road.



Photograph 11: Tank 2





Photograph 12: Tank 3



Photograph 14: Excavation filled, brought back to grade, and compacted with excavator.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

May 3, 2018

MEMORANDUM TO:	John S Abel Jr. Division Project Engineer, Division 1
FROM:	Dennis G. Li, Ph.D., LG GeoEnvironmental Project Manager GeoEnvironmental Section Geotechnical Engineering Unit
TIP NO: WBS: COUNTY: DIVISION DESCRIPTION:	R-5808 46972.1.1 GATES 1 TO MODERNIZE US ROUTE 158 BY WIDENING THE EXISTING LANES AND IMPROVING THE SHOULDERS FROM SR 1002 (ACORN HILL RD) INTERSECTION TO THE PASQUOTANK COUNTY LINE IN THE WEST. (4 MILES).

SUBJECT: GeoEnvironmental Planning Report

The GeoEnvironmental Section of the Geotechnical Engineering Unit performed a Phase I field investigation on April 18, 2018 for the above referenced project to identify geoenvironmental sites of concern. The purpose of this report is to document sites of concern within the project study area that are or may be contaminated. These sites of concern should be included in the environmental planning document in an effort to assist the project stakeholders in reducing or avoiding impacts to these sites. Sites of concern may include, but are not limited to, underground storage tank (UST) sites, dry cleaning facilities, hazardous waste sites, regulated landfills and unregulated dumpsites.

Findings

No Sites of concern were identified within the proposed study area as shown in the figure below. We don't anticipate any monetary or scheduling impacts resulting from geoenvironmental sites of concern.

Please note that discovery of sites not recorded by regulatory agencies and not reasonably discernible during the project reconnaissance may occur. The GeoEnvironmental Section should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

If there are questions regarding the geoenvironmental issues, please contact me, at (919) 707-6857.

Mailing Address: NC DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING UNIT 1589 MAIL SERVICE CENTER RALEIGH NC 27699-1589 Telephone: 919-707-6850 Fax: 919-250-4237 Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location: CENTURY CENTER COMPLEX ENTRANCE B-2 1020 BIRCH RIDGE DRIVE RALEIGH NC

GeoEnvironmental Planning Report T.I.P.#: R-5808 Page 2 of 3

cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer Stephen R. Morgan, PE, State Hydraulics Engineer Andrew McDaniel, PE, Stormwater NPDES Permit Program - Engineering Supervisor Brian Hanks, PE, State Structures Engineer Dale Burton PE, PLS, State Locations and Surveys Engineer Carl Barclay, PE, State Utilities Manager Jerry Jennings, PE, Division 1 (Construction) Engineer Roy "Chris" Sutton, Division 1 Right of Way Agent Chris Kreider, PE, Geotechnical Regional Manager Dean Argenbright, LG, Regional Geological Engineer Steve Grimes, ROW Unit, Negotiations, State Negotiator row-notify@ncdot.gov roadwaydesign@ncdot.gov File

