

PRELIMINARY SITE ASSESSMENT

US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO
MULTI-LANES SOUTH OF WILLIAMSTON – PARCEL NO. NA
10052 US 17 HWY N
WASHINGTON, BEAUFORT COUNTY, NORTH CAROLINA

NCDOT WBS ELEMENT 35494.1.1
STATE PROJECT R-2511

June 18, 2018

Prepared for:

Mr. Gordon Box, P.G.
North Carolina Department of Transportation
Geotechnical Engineering Unit
1592 Mail Service Center
Raleigh, North Carolina 27699

Prepared by:

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9001 Glenwood Avenue
Raleigh, North Carolina 27617

ECS Project No. 49:6617



ECS SOUTHEAST, LLP

Geotechnical • Construction Materials • Environmental • Facilities

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SC Registered Engineering Firm 3250

June 18, 2018

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North Carolina Department of Transportation
Geotechnical Engineering Unit
1592 Mail Service Center
Raleigh, NC 27699

Reference: Preliminary Site Assessment
State Project: R-2511
WBS Element: 35494.1.1
Parcel # NA
10052 US 17 HWY N
Washington, Beaufort County, North Carolina 27889
ECS Project 49:6617

Dear Mr. Box:

Please find enclosed a report summarizing the sampling activities for the preliminary site assessment conducted at the referenced site. This report summarizes our field activities, results, laboratory report, conclusions, and recommendations.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,

ECS SOUTHEAST, LLP

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PRELIMINARY SITE ASSESSMENT

Site Name and Location: US 17 from Washington BYP North of NC 171
to Multi-Lanes South of Williamston
10052 US 17 HWY N
Washington, Beaufort County, North Carolina

Property Owner Mary Williams
208 Buckingham Drive
Winterville, North Carolina 28590

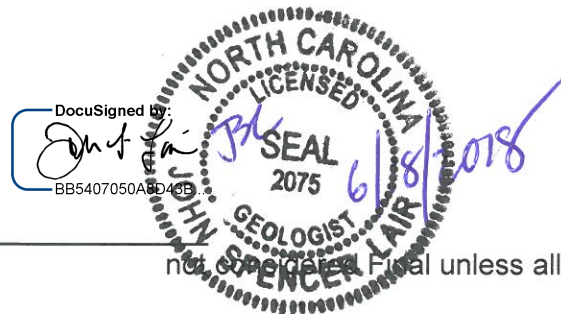
NCDOT Project No.: NCDOT WBS Element 35494.1.1
State Project R-2511

Date of Report: June 18, 2018

Consultant: ECS Southeast, LLP
6714 Netherlands Drive
Wilmington, North Carolina 28405
Attn: Mr. John Lair, P.G.
Phone: 910-726-3075

Seal and Signature of Certifying Licensed Geologist

I, John S. Lair, P.G., a Licensed Geologist for ECS Southeast, LLP, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



John S. Lair, P.G.
NC License No. 2075

not a General Final unless all signatures are completed

ECS Southeast, LLP is permitted to practice geology | engineering in North Carolina. The certification number of the corporation is C-406.

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1.0 INTRODUCTION

ECS Southeast, LLP (ECS) has prepared this Preliminary Site Assessment (PSA) report which documents assessment activities performed within the proposed right-of-way and easement up to the edge of the pavement of 10052 US 17 Highway N, Washington, Beaufort County, North Carolina (Figure 1). Approximately 80 ft of the parcel adjacent to the US 17 is documented to be current NCDOT Right of Way. This assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with ECS Proposal 49:7825-P dated December 20, 2017.

The NCDOT is proposing to widen US-17 Highway from Washington BYP North of NC 171 to multi-lane south of Williamston (State Project: R-2511, WBS Element: 35494.1.1). The proposed right-of-way is located along the western side of 10052 US 17 Highway (Figure 2). There is concern that contaminated soils could be encountered during the construction activities at this site. The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in proposed construction areas related to the construction of the widening of US 17 Highway.

1.1 Site Description & Site Reconnaissance Findings

The proposed right-of-way is located along the western side of the property owned by Mary Williams. At the time of our site reconnaissance in December 2017 and April 2018, this parcel was unoccupied by tenants.

During the site reconnaissance on December 7, 2017, ECS spoke with a neighbor, who resided approximately 500 ft. north of East Beargrass Road (NC 1420) along the eastern side of US 17. The neighbor indicated that he believed that there were possibly two lifts and a sand filled "pit" in the garage. ECS observed fill pipes on the northern portion of the building, no visible signs of underground storage tank (UST) fill ports were observed. The neighbor did not believe that the USTs had been removed. A dispenser island with two pump locations were observed on the west side of the building following US 17 Highway. An aboveground storage tank (AST) with unknown contents and a propane AST were observed adjacent to the residence near the detached garage.

During the site reconnaissance on April 20, 2018, ECS met with the property owner, Ms. Mary Williams, and determined the following information regarding the multiple buildings on this parcel: a northernmost residential building with a detached garage, an inactive water supply well contained in a locked pump house (located in the rear yard of the garage facility) and a southernmost former automotive service facility with two bay doors combined with the former gasoline retail station with a pump island where two former fuel dispenser were previously removed. ECS utilized a metal detector and located the fill port for the UST system. No monitoring wells or observation wells were identified. Ms. Williams informed ECS that the inactive water supply well once supplied potable water to the residence and the garage facility. Additionally, she was uncertain of the location, last use, or last contents of the USTs.

Ms. Williams was able to open the one of two bay doors to the former automotive service station and revealed a step-down service pit filled with sand. Because of the overlaying sand, ECS was unable to observe the base of the pit. ECS utilized a probe rod and determined that the structure likely contained a concrete base but could not observe the bottom to determine if a floor drain was present. It was not feasible to mobilize a drill rig into the confined garage space; therefore, samples were not collected from this area. ECS did not observe evidence of a hydraulic lift. Approximate AST and UST locations are depicted on Figure 2. Site photographs are shown in Appendix A.

1.2 Site Location

The subject site is located at 10052 US 17 Highway, Washington, Beaufort County, North Carolina (Figures 1 and 2). The site is directly east of US 17 Highway.

1.3 NCDEQ File Review

ECS reviewed the North Carolina Department of Environment Quality (NCDEQ) underground storage tank (UST) database via the NCDEQ Laserfiche WebLink and Underground Storage Tank Incidents Map regarding the subject site on May 14, 2018. No information related to the USTs or ASTs at the subject site was identified during our review.

2.0 SITE ASSESSMENT

2.1 Geophysical Investigation

ESP Associates, Inc. (ESP) conducted a geophysical investigation on the west side and rear of the former gas station and residence at 10052 US 17 Highway N., Washington, North Carolina on April 3, 2018 and April 25, 2018.

ESP utilized electromagnetic (EM) induction technology and ground penetrating radar (GPR) to identify potential geophysical anomalies and potential USTs at the site. A more detailed description of their scope of work is explained in their Report on Geophysical Services included in Appendix B.

2.2 Soil Sampling

Prior to implementing the field activities, ECS contacted North Carolina One Call to locate/mark public utilities at the site. Required separation distances between subsurface activities and marked utilities (typically 30-inches) were maintained during the field activities.

To determine if contaminated soil may be encountered during the proposed construction activities in the vicinity of the NCDOT right of way and easement, soil samples were collected along the western side of the property. ECS personnel and Quantex, a North Carolina Licensed Well Operator, met at the property on April 20, 2018. Fifteen (15) soil borings were drilled by a Geoprobe® utilizing direct push technology (DPT) to a total depth of 10 feet below the ground surface (bgs) to collect 15 soil samples (SS-1 through SS-15). The approximate location of the borings is shown on Figure 3.

The soil samples were collected by driving a macrocore sampler in 5-foot intervals in each soil boring. Each 5-foot sample sleeve was divided in half and screened for volatile organic compounds in the field using a MiniRae 1000 photoionization detector (PID). In each boring, the soil interval with the highest PID reading was collected for laboratory analysis. If no organic vapors were detected, the driest sample collected from the bottom of the boring was submitted for analysis. The PID identified relative levels of volatile organic compounds (VOCs) in the soil samples collected from four of the borings. Additionally, ECS personnel detected olfactory petroleum odors from the soil samples collected from same four soil borings where elevated relative levels of volatile organic vapors were detected. The PID readings are summarized in Table 1. Copies of the boring logs are included in Appendix C.

Prior to the initial boring and after each subsequent boring, the sampling equipment was decontaminated using a high pressure steam cleaner. The soil samples collected for laboratory analysis were analyzed for total petroleum hydrocarbons (TPH) similar to diesel and gasoline range organic compounds (DRO/GRO) using ultraviolet fluorescence (UVF). Each soil sample was placed into laboratory provided jars, labeled, and maintained on ice until delivered to Red Labs, located in Wilmington, North Carolina, where the samples were analyzed using Ultraviolet Light Fluoresce (UVF). Copies of the COCs are included in Appendix D.

2.3 Groundwater Sampling

Quantex and ECS installed two temporary groundwater monitoring wells (SS-1-TW and SS-9-TW) in the borings associated with soil samples SS-1 and SS-9. Temporary monitoring well SS-1-TW was installed in the northeastern portion of the subject site near the residence approximately 100 feet north of the location of the UST basin and approximately 85 feet west of the ASTs. Temporary monitoring well SS-9-TW was installed in the western portion of the site approximately 5 feet from the UST basin. The locations of the temporary monitoring wells are shown on Figure 3.

The temporary wells were constructed with one-inch diameter Schedule 40 PVC flush-threaded casing and screen. The PVC screen and casing were lowered into the open borehole. A ten-foot length of slotted well screen with machined 0.010-inch slot widths and a threaded bottom plug were installed at the bottom of each 15 foot well. A solid section of PVC casing was placed above the screened interval and extended to a point just above the ground surface. The annular space around each well was filled with a washed and graded, medium sand to approximately two feet above the top of the 10 foot length screen atop 5 feet of riser. Groundwater at the time of sampling was encountered at a depth of 1.32 ft. below top of casing (btoc.) in the temporary monitoring well at the source site of soil sample SS-1 and 1.68 ft btoc. in the temporary monitoring well at the source site of soil sample SS-9, as relatively gauged from the top of casing utilizing a decontaminated water level meter.

Groundwater was purged and sampled subsequent to being pumped to the surface using a peristaltic pump with dedicated disposable polyethylene tubing lowered through the temporary monitoring well casing. Groundwater samples were placed directly into laboratory prepared containers at each sample location.

Groundwater sample containers were labeled with ECS project number, sample identification, sample date and time, and requested analytical analysis. The containers were properly packaged and placed into a cooler with ice to maintain the samples at approximately 4° Celsius (C°). Groundwater samples were submitted for chemical analysis for volatile organic compounds using Standard Method 6200B and 1,2-Dibromoethane (EDB) using EPA method 504.1. Groundwater laboratory analysis was conducted by the NCDOT approved laboratory, Prism Laboratories, located in Charlotte, North Carolina (North Carolina Certification #402). ECS maintained proper COC procedures throughout the sample collection and transportation process. Copies of the COCs are included in Appendix D. Following the completion of the groundwater sampling activities, the borings were properly abandoned.

3.0 RESULTS

3.1 Geophysical Investigation Findings

ESP's results indicate that the GPR and EM investigation identified four (4) anomalies indicative of USTs near the relic pump island (Figure 3). ESP concluded that it is probable that the USTs are each approximately 1,800 gallons in capacity, 5 feet diameter by 12 feet in length and buried about 2.5 feet below the ground surface. Another anomaly was identified in the south western portion of the property; ESP believes that this is a relic site feature or utility feature of the site. ESP outlined the area of the probable USTs using pink marking paint for reference. ESP's report is included in Appendix B.

3.2 Soil Analytical Results

Soil samples were screen in the field using a PID and recorded in a designated field notebook. PID readings can be observed in Table 1. Elevated PID readings were detected in soil samples SS-5 (0.5 parts per million (ppm)), SS-8 (9.4 ppm), SS-9 (27.4 ppm), and SS-10 (120 ppm).

Laboratory analysis detected TPH-GRO in the soil samples collected from soil borings SS-3, SS-4, SS-7, SS-8, SS-9, SS-10, and SS-13. Soil samples exceeded the laboratory reporting limit but did not exceed the NCDEQ State Action Level of 50 milligram per kilogram (mg/kg). Laboratory analysis of soil sample detected SS-10 concentrations of TPH-GRO above the reporting limit and the NCDEQ State Action Level of 50 mg/kg at a concentration of 68.4 mg/kg.

Laboratory analysis detected TPH-DRO in the soil samples collected from soil borings SS-1, SS-3, SS-5, SS-7, SS-8, SS-9, SS-10, SS-12, SS-14, and SS-15. Soil samples exceeded the laboratory reporting limit but did not exceed the NCDEQ State Action Level of 100 mg/kg.

Laboratory results are summarized in Table 1 and on Figure 4. The laboratory report and associated chain-of-custody document are included in Appendix D.

3.3 Groundwater Analytical Results

Laboratory analysis of groundwater sample SS-9-TW detected several VOCs above the North Carolina Administration Code, Title 15A Subchapter 02L Groundwater Standards (NC2LGWQS). Groundwater sample SS-9-TW exhibited concentrations of 1,2,4-Trimethylbenzene, 1,2,5-Trimethylbenzene, benzene, ethylbenzene, isopropylbenzene (cumene), m,p-xylene, naphthalene, n-propylbenzene, o-xylene, toluene, and total xylene above their respective NC2LGWQS but below their respective Gross Contamination Levels (GCLs).

An estimated concentration of acetone was detected above the laboratory reporting limit in the groundwater sample collected from temporary monitoring well SS-1-TW; however, ECS attributes this analyte estimation detection as a laboratory artifact. Laboratory analysis did not report additional targeted analytes at concentrations above laboratory reporting limits in the groundwater sample collected from temporary monitoring well SS-1-TW.

Laboratory results are summarized in Table 2. The laboratory report and associated chain-of-custody document are included in Appendix D.

4.0 CONCLUSIONS

Based on results of the laboratory analysis, geophysical investigation, and field observations, ECS has the following conclusions:

- ◆ The NCDEQ regulatory databases reviewed did not identify the subject site with registered USTs/ ASTs or previously documented releases.
- ◆ ECS did not observe evidence of a hydraulic lift in the former automotive service facility.
- ◆ Four (4) anomalies indicative of USTs were identified in the proposed NCDOT right of way. The contents and last use of the USTs is currently unknown. Soil and groundwater sampling conducted during this preliminary site assessment confirmed that a petroleum release has likely occurred.
- ◆ Soil samples were collected at an approximate depth of 4 to 5 feet below grade from fifteen locations at the subject site. Analytical results for soil samples indicate that the detected concentration of TPH-GRO exceeded action levels established by the NCDEQ in one of these fifteen locations. The detected TPH-GRO concentration associated with soil sample SS-10 is 68.4 milligrams per kilogram (mg/kg) and the NCDEQ action level is 50 mg/kg. Analytical results do not indicate exceedances of action levels for soil samples collected at the remaining sample locations.
- ◆ Soil sample location SS-10 is bounded to the southwest and northeast by sample locations SS-11 and SS-15, respectively. No soil sample locations are present to the southeast or northwest of the sample location. Therefore, the extent of impacted soil exceeding the indicated action level is undefined in these directions.

- ◆ Field observations of soil samples collected during the advancement of soil borings at the site indicated that saturated soil was first encountered at a depth of approximately 7 feet below grade. However, when temporary wells were set in several borings and allowed to stabilize, the water level was noted to be approximately 1.5 feet below grade.
- ◆ For estimating the volume of petroleum-impacted soil which exceeds the action level, ECS made the following assumptions:
 - Soil with impacts exceeding the action level extend from sample location SS-10 in a southwesterly to sample location SS-11, a distance of approximately 20 feet and in a northeasterly to sample location SS-15, also a distance of approximately 20 feet.
 - Soil with impacts exceeding the action level extend from sample location SS-10 in other directions at similar distances as that in the southwesterly and northeasterly directions.
 - Soils with impacts exceeding the action level do not extend beyond a depth of 7 feet below grade.
 - Based upon the foregoing assumptions, ECS estimates that less than 50 cubic yards of potentially petroleum-impacted soil which exceed the action level remain at the site. ESC estimates that this volume of saturated soil weighs approximately 80 tons.
- ◆ Laboratory analysis reported several VOC's at concentrations above their respective NC2LGWQS but below their respective GCLs in the groundwater samples collected from temporary monitoring well SS-9-TW.

5.0 RECOMMENDATIONS

Based on the results of this preliminary site assessment, ECS recommends the following:

- ◆ Based on the laboratory analytical results, which are indicative of a petroleum release, ECS understands that a reporting obligation exists to the NCDEQ and recommends that the NCDOT provide a copy of this report to the NCDEQ Washington Regional Office for their review.
- ◆ ECS recommends that the USTs be properly closed.

*Preliminary Site Assessment - State Project: R-2511
WBS Element: 3549.1.1
Parcel # NA Faircloth
10052 US 17 HWY N
Washington, Beaufort County, North Carolina
ECS Project 49:6617*

6.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities.

This report was prepared for the express use of NCDOT. Use of this report by any other individual or company implies their acceptance of the General Conditions of Service of the original contract.

TABLES

TABLE 1: SUMMARY OF SOIL ANALYTICAL RESULTS

Preliminary Site Assessment
 US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston
 State Project: R-2511
 WBS Element: 35494.1.1
 Parcel #NA, Faircloth, Mary Williams
 10052 US 17 HWY N
 Washington, Beaufort County, North Carolina
 ECS Project No. 49:6617

Parameter																Comparison Criteria
Sample ID	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	NCDEQ State Action Level
PID Reading	0.0	0.0	0.0	0.0	0.5	0.0	0.0	9.4	27.4	120.0	0.0	0.0	0.0	0.0	0.0	
Collection Depth (feet bgs)	4-5															
Collection Date	4/20/18															
Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) and TPH Diesel Range Organics (DRO) via Ultraviolet Fluorescence (UVF)																
DRO	0.06	<0.03	1.6	<0.03	11.5	<0.12	0.34	19.8	19.3	79.9	<0.03	0.23	<0.03	0.56	0.69	100
GRO	<0.42	<0.43	2.3	0.45	<0.41	<1.5	0.69	9.9	31.9	68.4	<0.43	<0.42	1.1	<0.47	<0.45	50

Notes:
 Results presented in milligrams per kilogram (mg/kg), parts per million (ppm)
 Feet bgs = Feet below ground surface
 NCDEQ = North Carolina Department of Environmental Quality
Bold = Detected above the NCDEQ Action Level

TABLE 2: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Preliminary Site Assessment
 US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston
 State Project: R-2511
 WBS Element: 35494.1.1
 Parcel #NA, Faircloth, Mary Williams
 10052 US 17 HWY N
 Washington, Beaufort County, North Carolina
 ECS Project No. 49:6617

Parameter	ANALYTICAL RESULTS		COMPARISON CRITERIA	
	SS-1-TW	SS-9-TW	NC2LGWQS (µg/L)	GCL (µg/L)
Sample ID				
Collection Date	4/20/18			
Volatile Organic Compounds by GC/MS				
Acetone	6.3 J	<10.0	6000	6000000
1,2,4-Trimethylbenzene	<0.50	2200 A	400	28500
1,3,5-Trimethylbenzene	<0.50	660 A	400	25000
4-Isopropyltoluene	<0.50	10	25	11700
Benzene	<0.50	86	1	5000
Ethylbenzene	<0.50	2500 A	600	84500
Isopropyl Ether	<0.50	1	70	70000
Isopropylbenzene (Cumene)	<0.50	95	70	25000
m,p-Xylene	<1.0	8500 A	500	85500
Naphthalene	<1.0	360 A	6	6000
n-Propylbenzene	<0.50	320 A	70	30000
o-Xylene	<0.50	3700 A	500	85500
sec-Butylbenzene	<0.50	15	70	8500
Styrene	<0.50	85	70	70000
tert-Butylbenzene	<0.50	0.68	70	15000
Toluene	<0.50	5500 A	600	260000
Xylenes, Total	<1.5	12000 A	500	85500

Notes:

Results presented in micrograms per liter (ug/L), analogous to parts per billion (ppb)
 NCDEQ = North Carolina Department of Environmental Quality
 GCL = NCDEQ's Gross Contamination Levels for Groundwater as of April 16, 2012
 NC2LGWQS = North Carolina Administrative Code, Title 15A Subchapter 02L Groundwater Standards as of April 1, 2013
 J = Analyte detected below the reporting limit, result is a laboratory estimate.
 A = Dilution prepared outside of holding time. Original run within the holding time.
 < = analyte is below the reporting limit (RL)
Bold denotes concentration exceeds the NC2LGWQS

FIGURES



SOURCE:
USGS Topographic Map

SCALE:
AS SHOWN ABOVE



FIGURE 1 - SITE LOCATION MAP

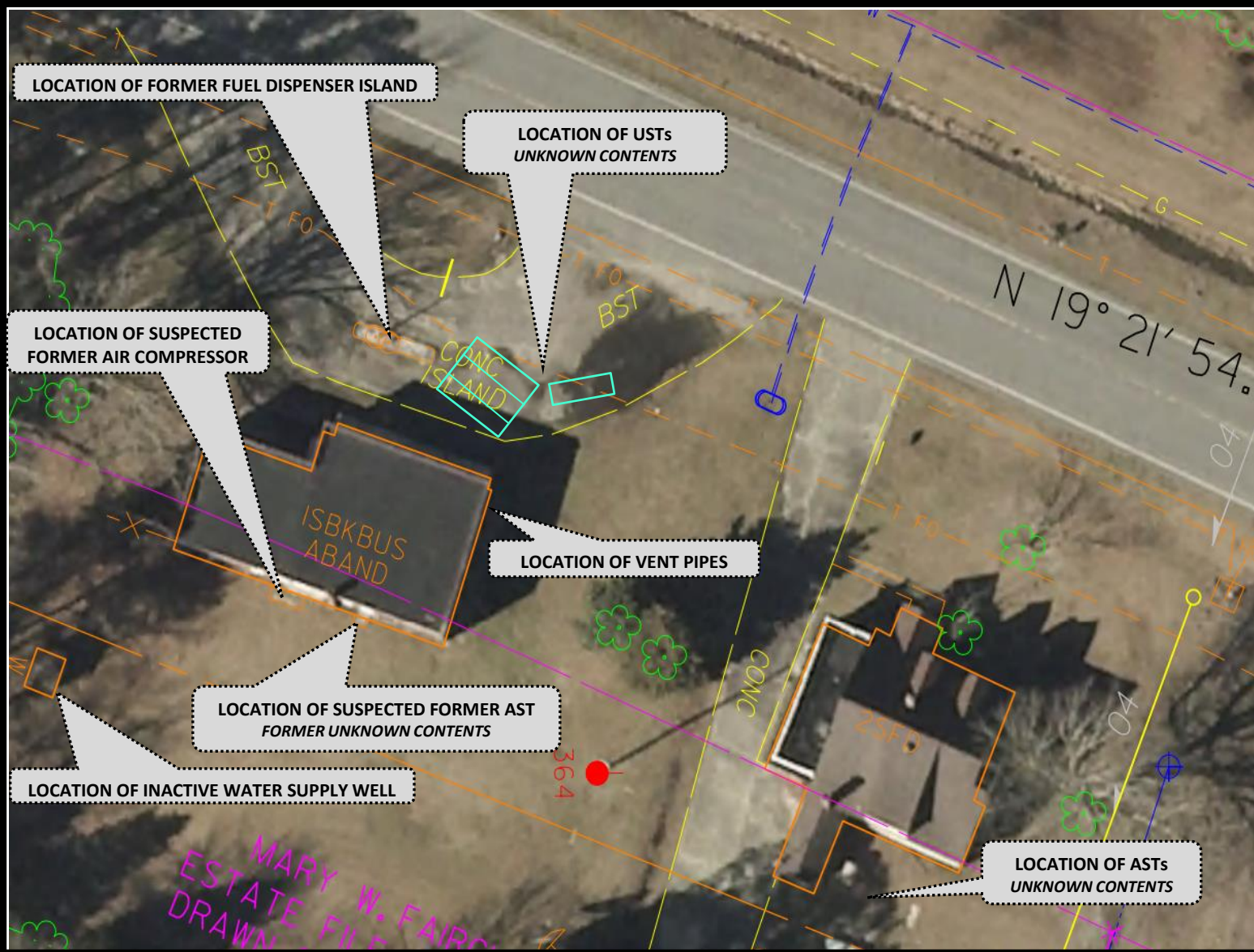
US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston

State Project: R-2511 WBS Element: 35494.1.1

Parcel #NA, Faircloth, Mary Williams
10052 US 17 HWY N

Washington, Beaufort County, North Carolina

ECS Project No. 49:6617



LEGEND:

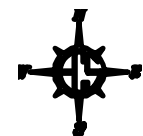
Approximate UST Location*

*as determined by the ESP Associates, Inc. geophysical investigation conducted on April 3, 2018 and April 25, 2018






FIGURE 2 – SITE FEATURES MAP

US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston
 State Project: R-2511 WBS Element: 35494.1.1
 Parcel #NA, Faircloth, Mary Williams
 10052 US 17 HWY N
 Washington, Beaufort County, North Carolina
 ECS Project No. 49:6617



LEGEND:

-  Approximate UST Location*
-  Approximate Soil Sample Location
-  Approximate Soil Sample and Groundwater Sample Location

*as determined by the ESP Associates, Inc. geophysical investigation conducted on April 3, 2018 and April 25, 2018



FIGURE 3 – SAMPLE LOCATION MAP

US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston
 State Project: R-2511 WBS Element: 35494.1.1
 Parcel #NA, Faircloth, Mary Williams
 10052 US 17 HWY N
 Washington, Beaufort County, North Carolina
 ECS Project No. 49:6617

SS-1/SS-1-TW	
COMPONENT	RESULT
DRO	0.06
GRO	<0.42
SS-2	
COMPONENT	RESULT
DRO	<0.03
GRO	<0.43
SS-3	
COMPONENT	RESULT
DRO	1.6
GRO	2.3
SS-4	
COMPONENT	RESULT
DRO	<0.03
GRO	0.45
SS-7	
COMPONENT	RESULT
DRO	0.34
GRO	0.69
SS-9/SS-9-TW	
COMPONENT	RESULT
DRO	19.3
GRO	31.9
SS-15	
COMPONENT	RESULT
DRO	0.69
GRO	<0.45
SS-10	
COMPONENT	RESULT
DRO	79.9
GRO	68.4
SS-11	
COMPONENT	RESULT
DRO	<0.03
GRO	<0.43

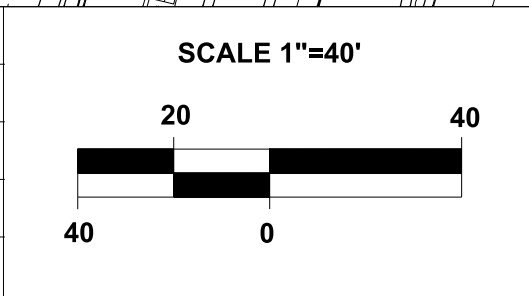
SS-14	
COMPONENT	RESULT
DRO	0.56
GRO	<0.47
SS-5	
COMPONENT	RESULT
DRO	11.5
GRO	<0.41
SS-6	
COMPONENT	RESULT
DRO	<0.12
GRO	<1.5
SS-8	
COMPONENT	RESULT
DRO	19.8
GRO	9.9
SS-13	
COMPONENT	RESULT
DRO	<0.03
GRO	1.1
SS-12	
COMPONENT	RESULT
DRO	0.23
GRO	<0.42

EXPLANATION

= SOIL SAMPLE

= GROUNDWATER AND SOIL SAMPLE

REVISIONS	DATE



REFERENCE:

SITE DATA PROVIDED BY NC DOT IN ELECTRONIC FORMAT

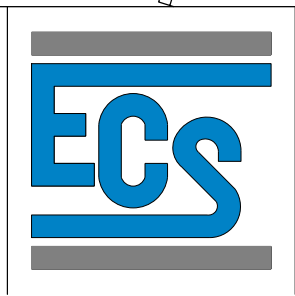
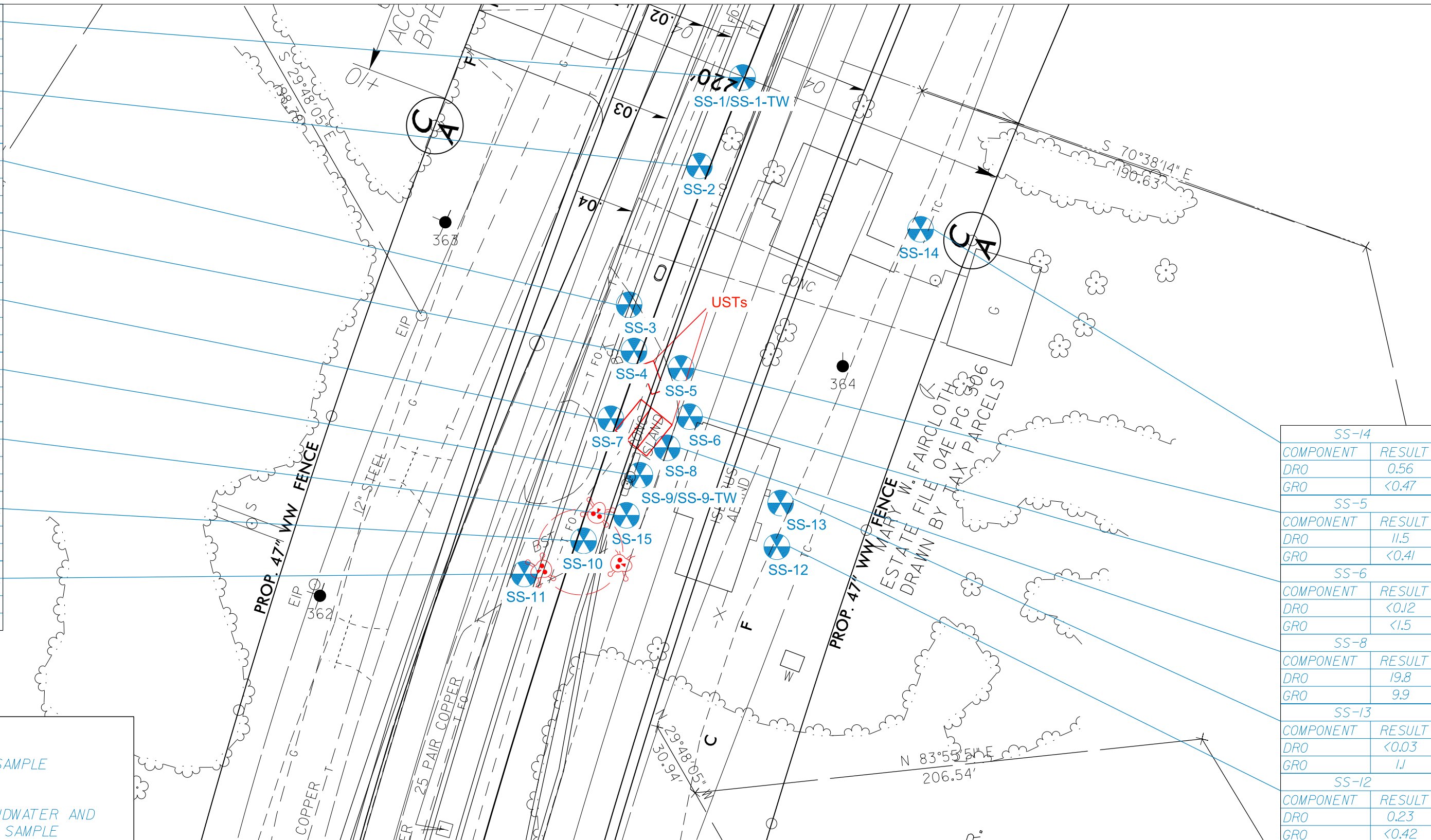


FIGURE 4 - SOIL ANALYTICAL RESULTS MAP
PARCELS #: NA
10052 US 17 HWY N
WASHINGTON, BEAUFORT COUNTY,
NORTH CAROLINA

NC DOT PROJECT ID: R-2511	DATE: 05/21/2018	WBS ELEMENT: 35494.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49:6617



Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Property Corner	⊙
Property Monument	⊙
Parcel/Sequence Number	⊙
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Known Soil Contamination: Boundary or Site	-----
Potential Soil Contamination: Boundary or Site	-----

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	⊙
Sign	⊙
Well	⊙
Small Mine	⊙
Foundation	⊙
Area Outline	⊙
Cemetery	⊙
Building	⊙
School	⊙
Church	⊙
Dam	⊙

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	-----
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	-----
Existing Right of Way Marker	-----
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	-----
Proposed Control of Access	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Curb Cut Future Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	-----
Pavement Removal	-----

VEGETATION:

Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	-----
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	-----
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

UTILITIES:

POWER:	-----
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Booth	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:	-----
Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

TV:	-----
TV Satellite Dish	-----
TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

GAS:	-----
Gas Valve	-----
Gas Meter	-----
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

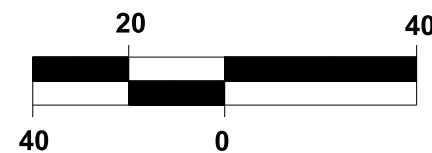
SANITARY SEWER:	-----
Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

MISCELLANEOUS:	-----
Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
U/G Test Hole (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

REVISIONS

DATE

SCALE 1"=40'



REFERENCE:

SITE DATA PROVIDED
BY NC DOT
IN ELECTRONIC FORMAT



FIGURE 5 - DOT LEGEND SHEET
PARCELS #: NA
10052 US 17 HWY N
WASHINGTON, BEAUFORT COUNTY,
NORTH CAROLINA

NC DOT PROJECT ID: R-2511	DATE: 05/21/2018	WBS ELEMENT: 35494.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49:6617

APPENDIX A



Photograph 1: View of the subject site – vacant residence and former automotive service facility with two bay doors combined with former gasoline retail station with a pump island where two former fuel dispenser were previously removed.



Photograph 2: View of rear of garage facility with inactive water supply well pump house.



SITE PHOTOGRAPHS

US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston

State Project: R-2511 WBS Element: 35494.1.1

Parcel #NA, Faircloth, Mary Williams

10052 US 17 HWY N

Washington, Beaufort County, North Carolina

ECS Project No. 49:6617



Photograph 3: View of the subject site interior – former automotive service facility.



Photograph 4: Additional view of the subject site interior – former automotive service facility.



SITE PHOTOGRAPHS

US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston

State Project: R-2511 WBS Element: 35494.1.1

Parcel #NA, Faircloth, Mary Williams

10052 US 17 HWY N

Washington, Beaufort County, North Carolina

ECS Project No. 49:6617



Photograph 5: View of the ASTs in the rear of the residence.



Photograph 6: View of UST basin and fill port.



SITE PHOTOGRAPHS

US 17 From Washington BYP North of NC 171 to Multi-Lane South of Williamston

State Project: R-2511 WBS Element: 35494.1.1

Parcel #NA, Faircloth, Mary Williams

10052 US 17 HWY N

Washington, Beaufort County, North Carolina

ECS Project No. 49:6617

APPENDIX B



April 27, 2018

Sarah Kordon
ECS Carolinas, LLP
4811 Koger Boulevard
Greensboro, NC 27407

**Reference: REPORT ON GEOPHYSICAL SERVICES TO SUPPORT
PRELIMINARY SITE ASSESSMENT
10052 US 17 HWY N
Washington, North Carolina
ESP Project No. EQ02.309**

State Project: R-2511
WBS Element: 35494.1.1
County: Beaufort
Description: US 17 From Washington BYP North of NC 171 To Multi-Lanes South of
Williamston

Dear Ms. Kordon:

ESP Associates, Inc. (ESP) is pleased to present this report to ECS Carolinas, LLP (ECS) on the geophysical services we provided for the referenced project. This work was performed under our subconsultant agreement dated September 11, 2014, in accordance with our cost proposal to you dated December 18, 2017, and also in accordance to Change Order 1 dated April 18, 2018. The purpose of the work was to help identify known and abandoned underground storage tanks (USTs).

1.0 GEOPHYSICAL DATA COLLECTION

On April 3, 2018, ESP performed geophysical studies on the west side of the former gas station and residence at 10052 US 17 Highway N., Washington, North Carolina. At the request of ECS, we returned to the site on April 25 and expanded the study area to include

the rear of the buildings and the area around the garage behind the residence. The work consisted of metal detection using a Geonics EM61 MK2 instrument and subsurface imaging using a Sensors and Software Noggin 250 Ground-Penetrating Radar (GPR) instrument. Representative photographs of the geophysical study areas are provided on Figure 1.

The EM61 data were collected over the accessible areas of the site using a line spacing of approximately 3 feet. We used a Hemisphere XF101 sub-meter differential GPS instrument (DGPS) connected to an Archer field computer to provide approximate locations of the EM61 data in real time. We collected GPR data over selected EM61 anomalies with responses significant enough to represent possible USTs. The DGPS instrument was also used to obtain the approximate location of site features that could affect the EM61 readings.

2.0 DATA ANALYSIS AND PRESENTATION

The EM61 data were gridded and contoured to produce plan view contour maps of the early time gate response (Figure 2) and the differential response (Figure 3). The differential response is calculated by subtracting the response of the bottom coil from the response of the top coil of the EM61. Typically, the differential response diminishes the response from smaller, near-surface metallic objects, thus emphasizing the response from deeper and larger metallic objects. The approximate DGPS locations of observed site features were superimposed on the EM61 contour maps so that anomalies caused by site features such as metal objects on the ground surface could be recognized.

The EM61 early time gate response and differential response were exported from Surfer as geo-referenced images and attached to the NCDOT plan sheet in MicroStation (Figures 6 and 7). The legend for the NCDOT line types and symbols is shown on Figure 8. The plan sheet has been updated to show the approximate locations of the known USTs mapped in the field with DGPS.

3.0 DISCUSSION OF RESULTS

The EM61 differential contour plot indicated high amplitude responses (anomalies) that correspond to sign poles and other metallic features on the ground surface. In addition, the EM61 differential data showed three anomalies that did not correspond to known metallic features.

We collected GPR data over three EM61 differential anomalies. Our on-site review of the GPR data indicated the location of four probable USTs on the north side of the relic pump island (Figures 4 and 5). The anomaly near the southwest portion of the site appears to be caused by a relic site feature or utility feature. The four probable USTs are all approximately

5 feet diameter by 12 feet long and buried about 2.5 feet below the surface. We outlined the area of the probable USTs using pink marking paint (Photos D and E, Figure 1).

4.0 SUMMARY AND CONCLUSIONS

Our review of the geophysical data collected for this project indicates the location of four probable USTs. In addition, there were two above-ground storage tanks (ASTs) behind the residence (Photo C, Figure 1). The probable USTs are each approximately 1,800 gallons in size and buried about 2.5 feet below the ground surface. We recommend that drilling and sampling be performed at least 2 feet outside of the area we marked indicating the approximate edges of the known UST.

5.0 LIMITATIONS

These services have been provided to ECS in accordance with generally accepted guidelines for performing geophysical surveys. It is recognized that the results of geophysical surveys are non-unique and subject to interpretation. Further, the locations of data and features included in this report are approximate and were collected using a sub-meter DGPS instrument. ESP makes no guarantee as to the accuracy of these locations.

Thank you for the opportunity to be of service to ECS on this project. Please contact us if you have any questions or need further information.

Sincerely,

ESP ASSOCIATES, Inc.



Edward D. Billington, PG

DMN/EDB

Attachments: Figures 1 – 8



A. Photo from southwest side of site, looking northeast.



B. Photo from north side of site, looking south.



C. Photo of two ASTs behind residence.

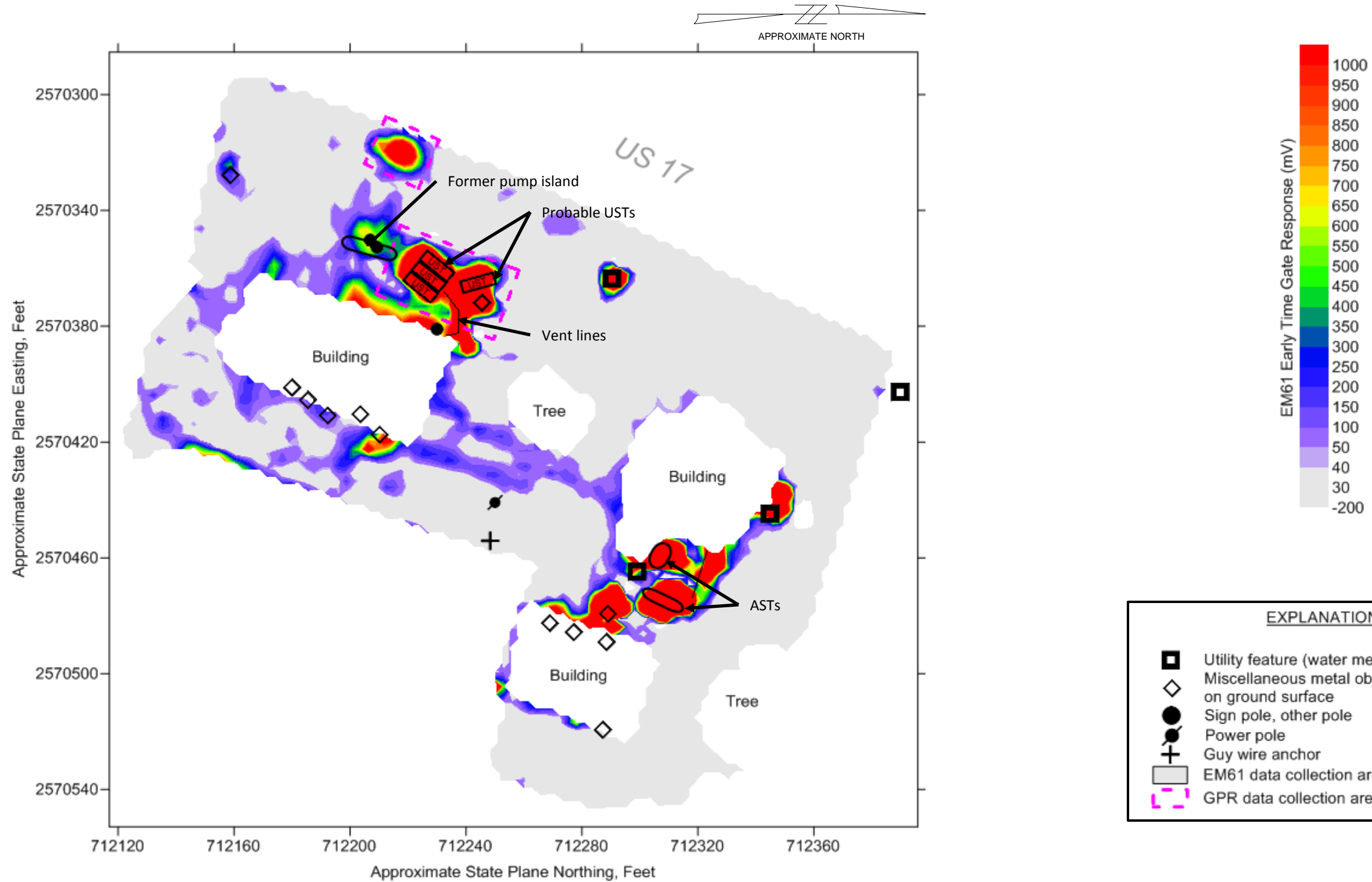


D. Photo of marked location of probable USTs, looking south



E. Photo of marked location of probable UST, looking west.

PROJECT NO. EQ02.309	FIGURE 1 – 10052 US 17 HWY N PHOTOGRAPHS OF SITE	ESP	ESP Associates, Inc. 7011 Albert Pick Rd., Suite E Greensboro, NC 27409
SCALE NTS			336.334.7724
DATE 4/26/18	US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI- LANES SOUTH OF WILLIAMSTON		www.espassociates.com
BY DMN			



Note: Locations of data and features are approximate and were collected using a sub-meter DGPS instrument. ESP make no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

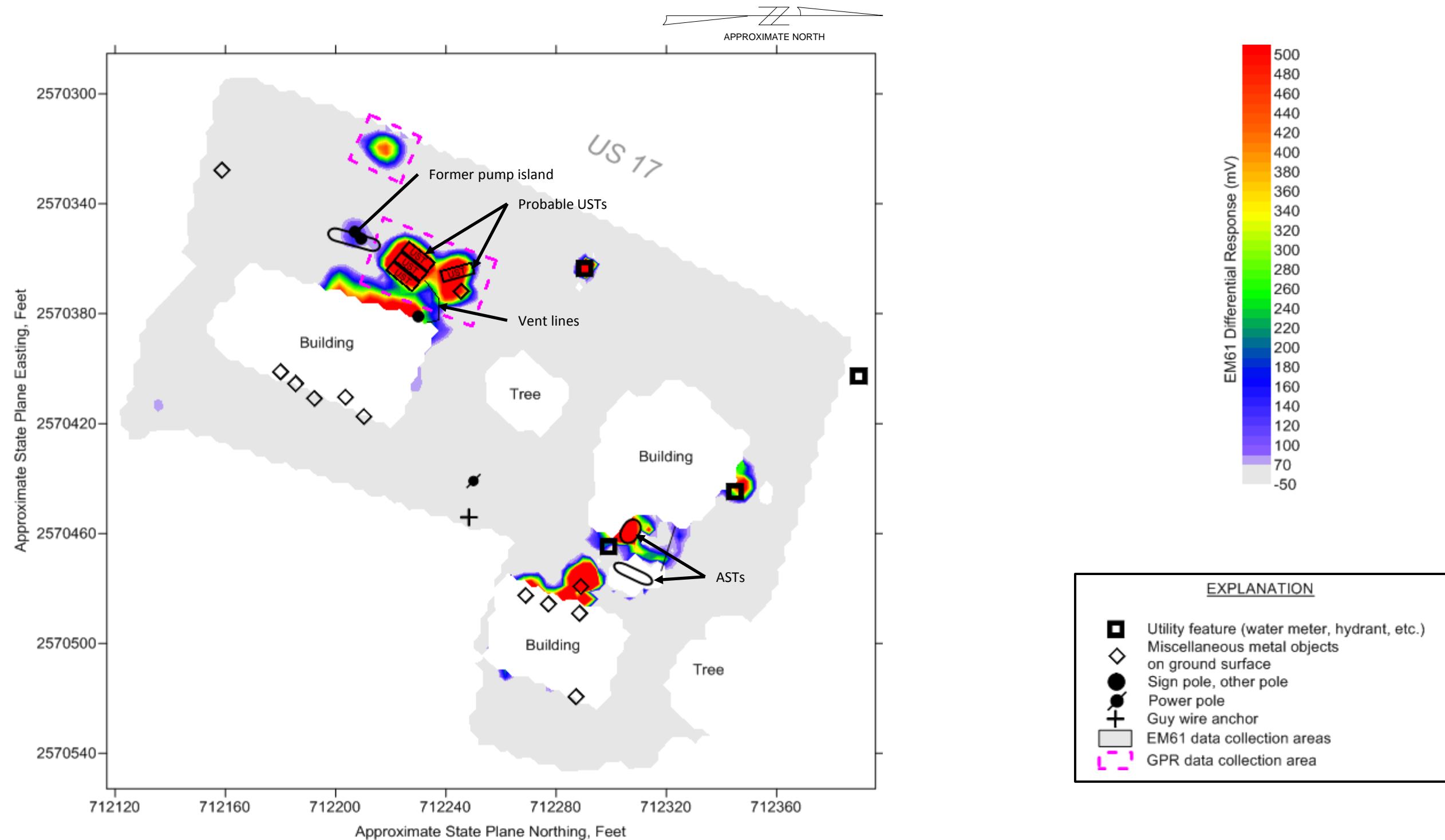
PROJECT NO.	EQ02.309
SCALE	AS SHOWN
DATE	4/26/18
BY	DMN

**FIGURE 2 – 10052 US 17 HWY N
EM61 EARLY TIME GATE RESPONSE**

US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON



ESP Associates, Inc.
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Suite E
Greensboro, NC 27409
336.334.7724
www.espassociates.com



Note: Locations of data and features are approximate and were collected using a sub-meter DGPS instrument. ESP make no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

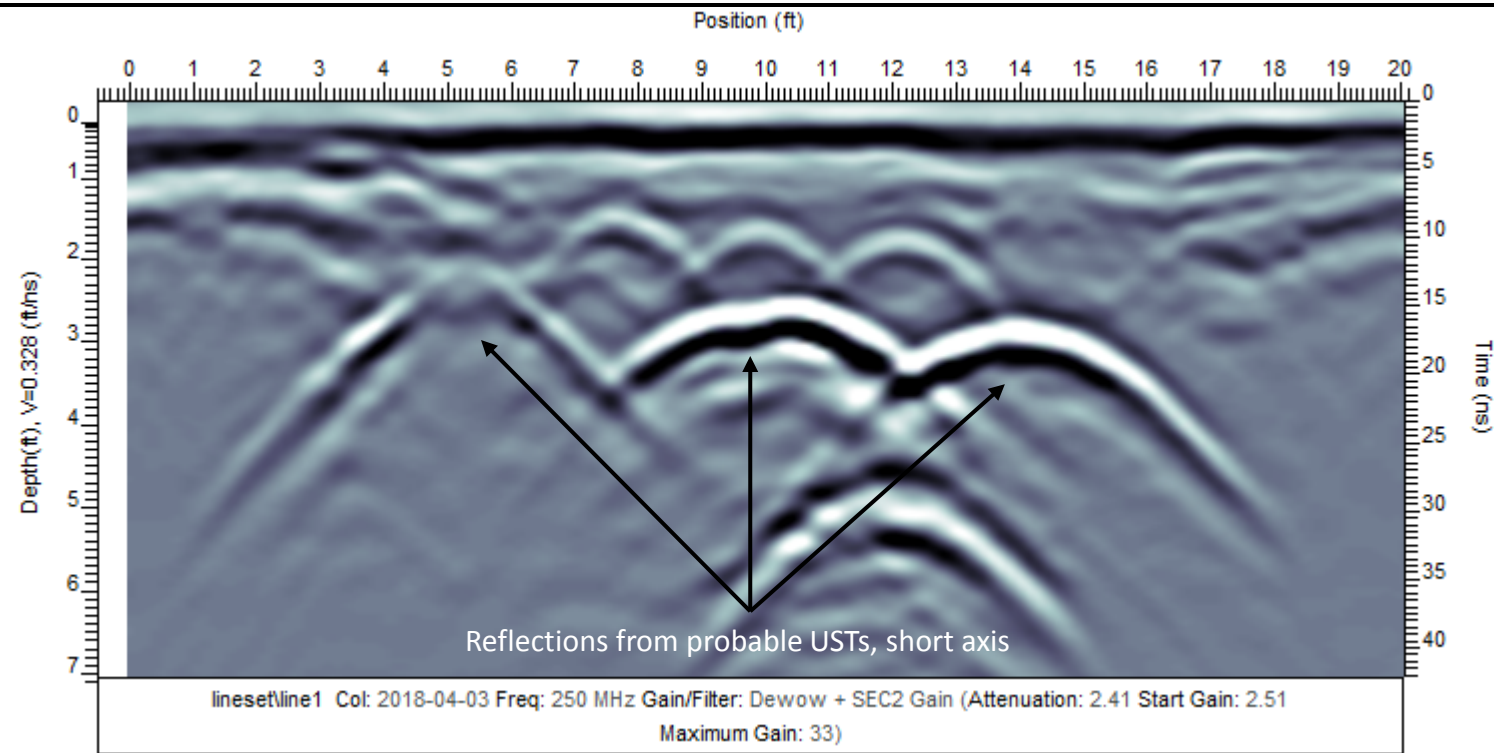
PROJECT NO.	EQ02.309
SCALE	AS SHOWN
DATE	4/26/18
BY	DMN

**FIGURE 3 – 10052 US 17 HWY N
EM61 DIFFERENTIAL RESPONSE**

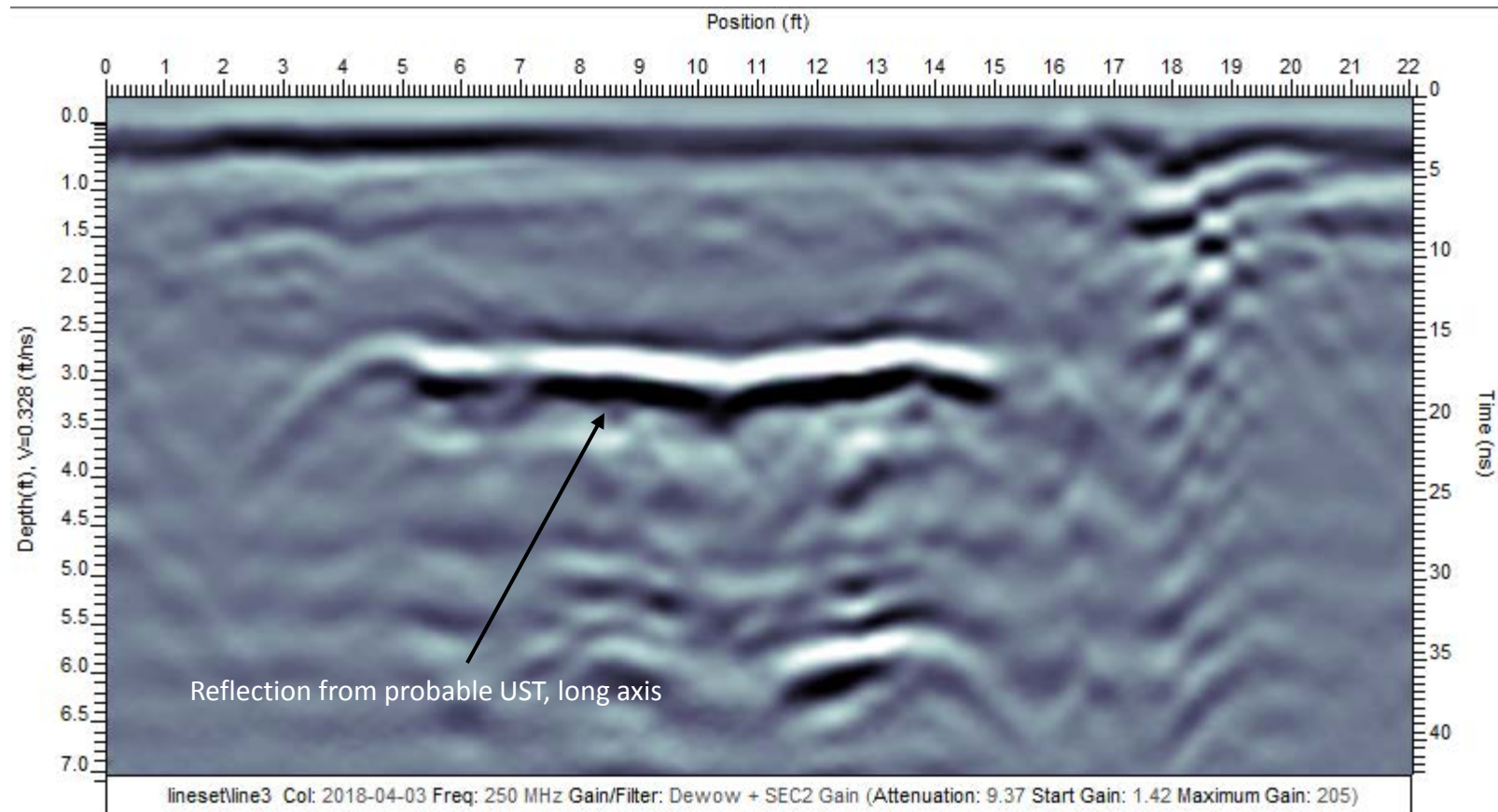
US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON



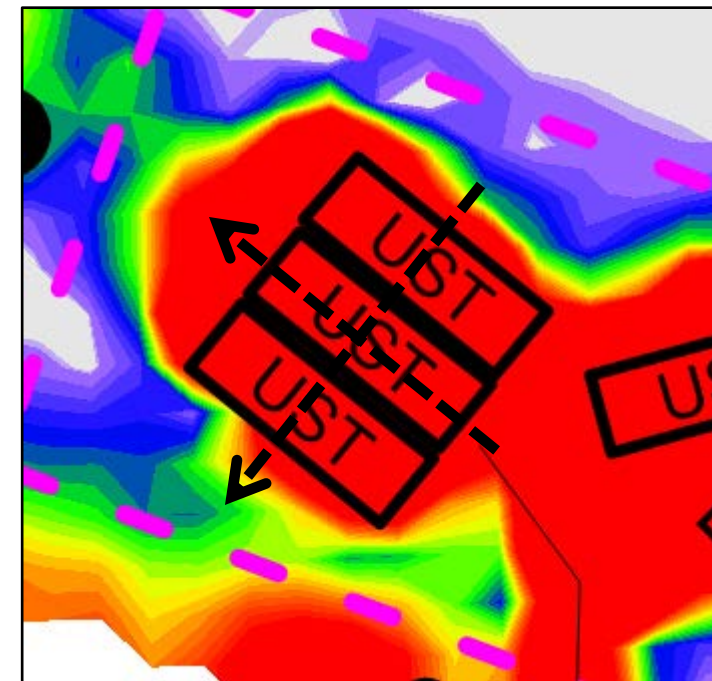
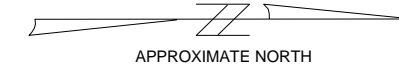
ESP Associates, Inc.
7011 Albert Pick Rd.,
Suite E
Greensboro, NC 27409
336.334.7724
www.espassociates.com



A. GPR image from NW to SE across probable USTs.



B. GPR image from NE to SW across probable UST.



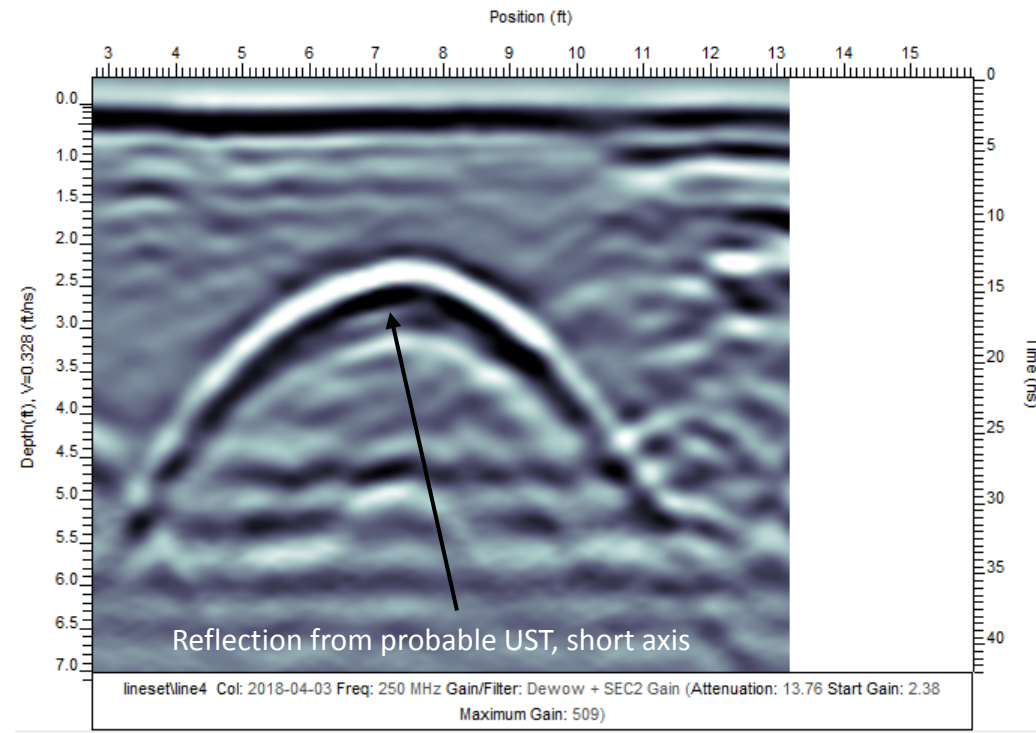
C. Portion of Figure 2 showing approximate locations of GPR cross-sections (dashed black lines with arrows).

PROJECT NO.	EQ02.309
SCALE	AS SHOWN
DATE	4/26/18
BY	DMN

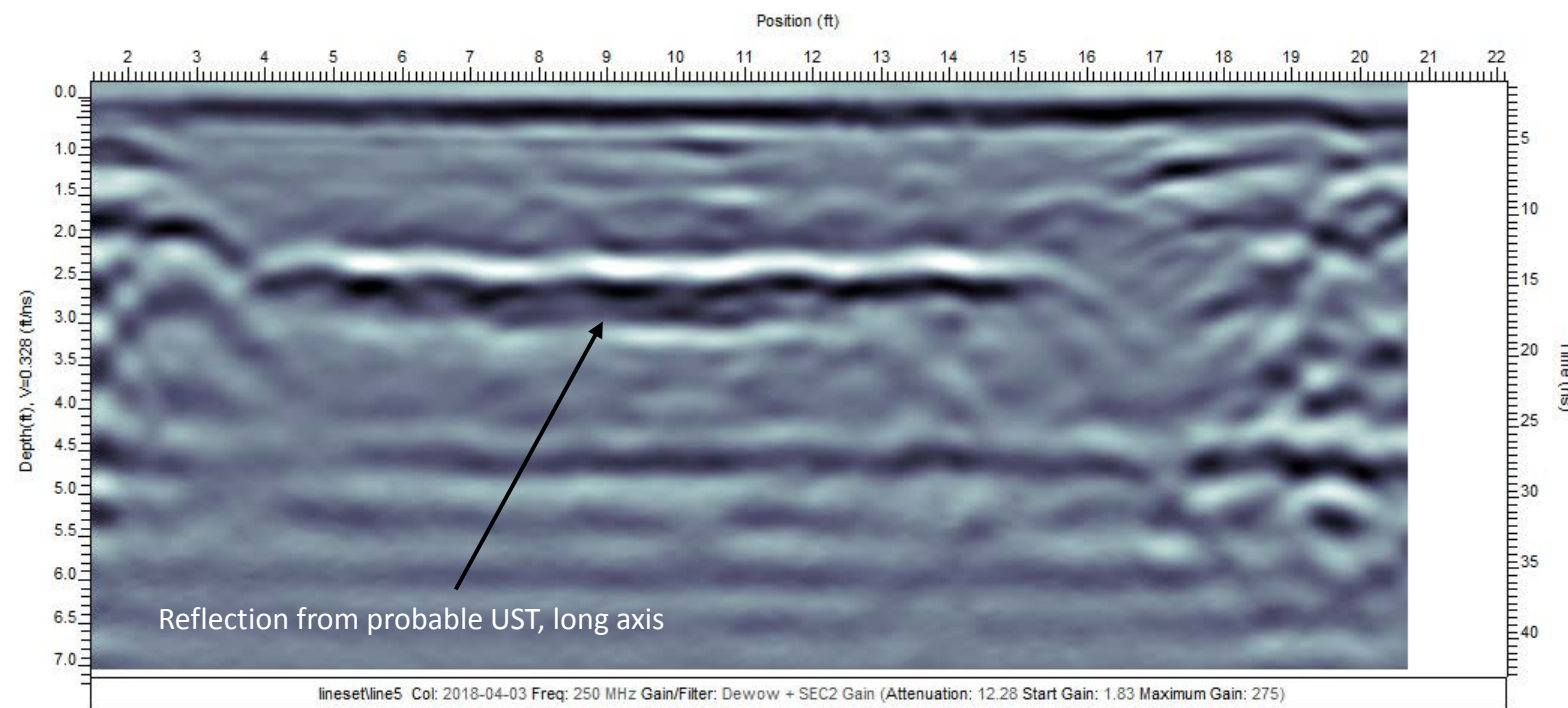
FIGURE 4 GPR IMAGES OF PROBABLE USTs
US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON



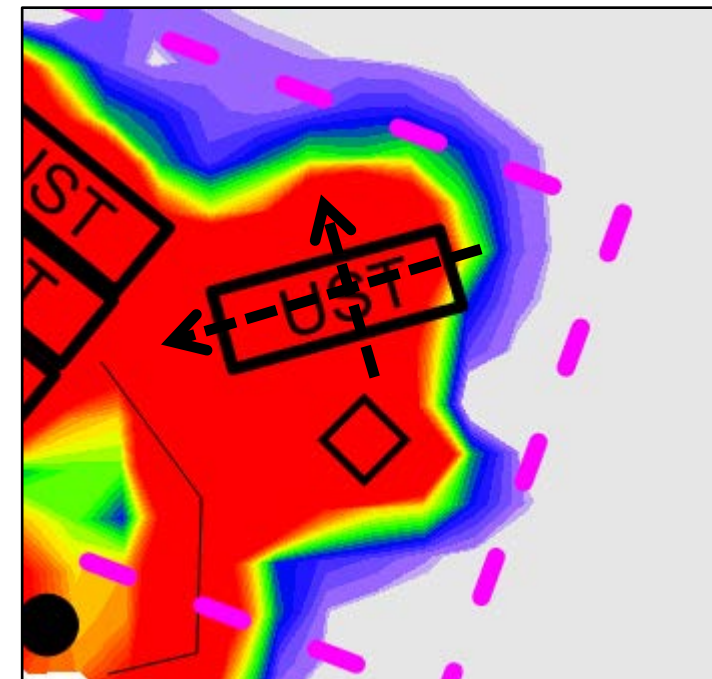
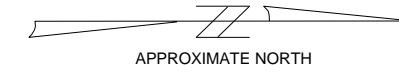
ESP Associates, Inc.
7011 Albert Pick Rd.,
Suite E
Greensboro, NC 27409
336.334.7724
www.espassociates.com




A. GPR image from E to W across probable UST.

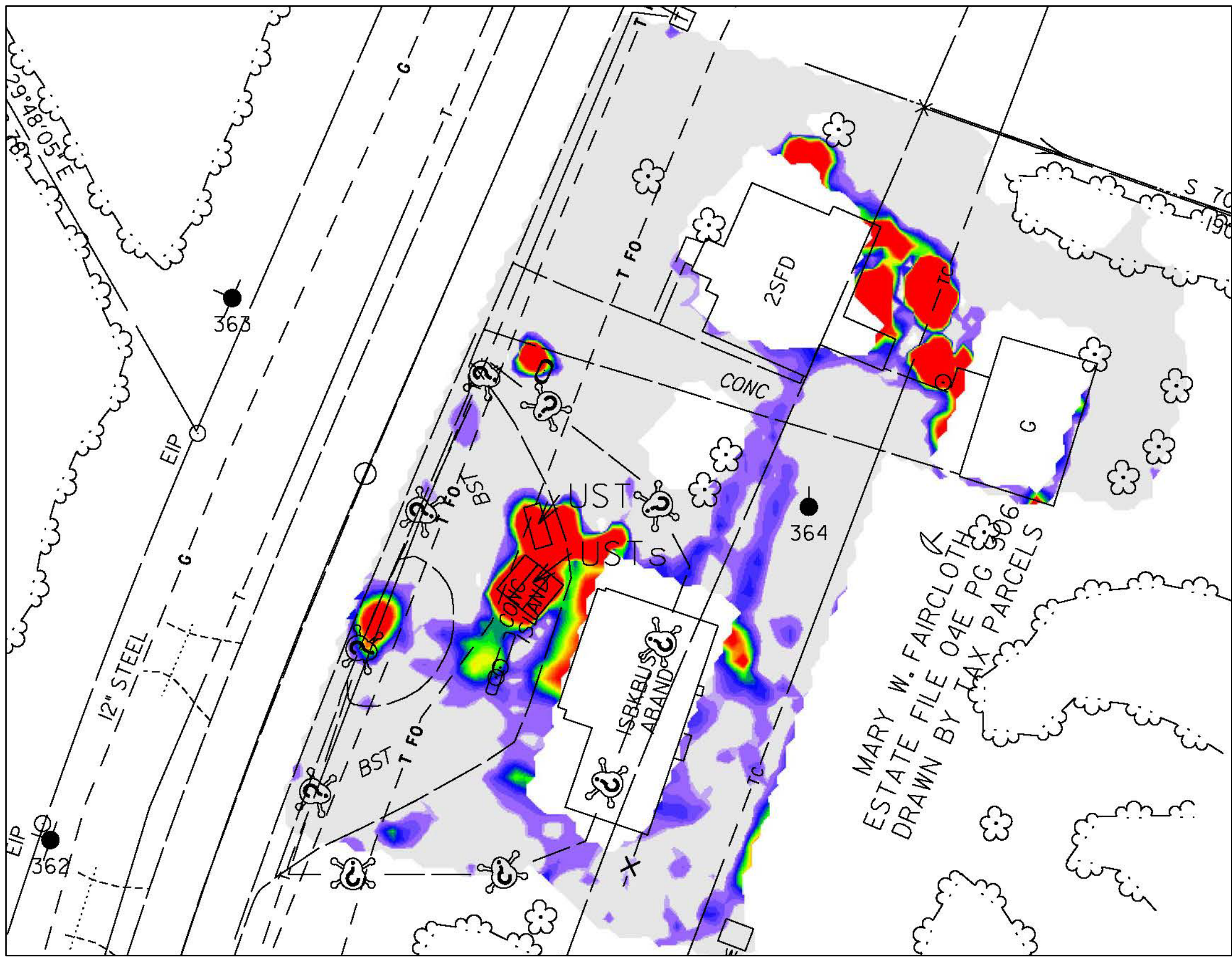


B. GPR image from NW to SE across probable UST.



C. Portion of Figure 2 showing approximate locations of GPR cross-sections (dashed black lines with arrows).

PROJECT NO. EQ02.309	FIGURE 5 GPR IMAGES OF PROBABLE UST		ESP Associates, Inc. 7011 Albert Pick Rd., Suite E Greensboro, NC 27409 336.334.7724 www.espassociates.com
SCALE			
DATE AS SHOWN 4/26/18	US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON		
BY DMN			



List of NCDOT reference files

- R2511_Geo_env_ESP.dgn
- R2511_NCDOT_FS.dgn

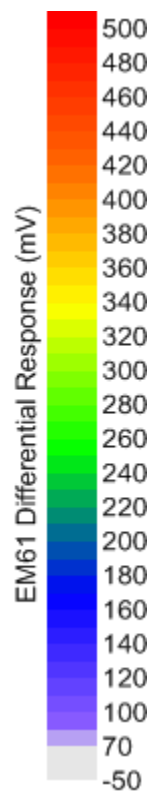
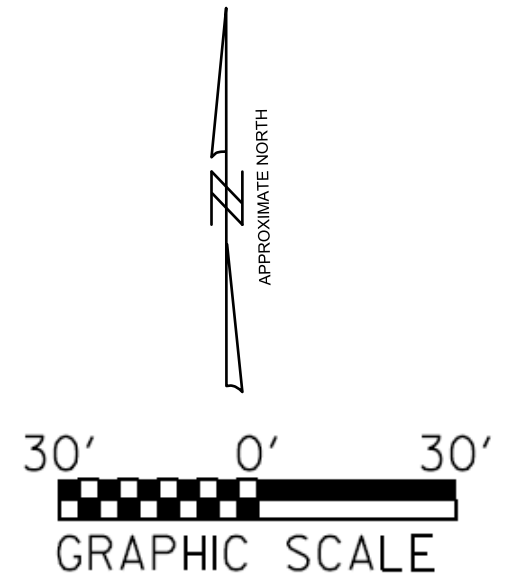
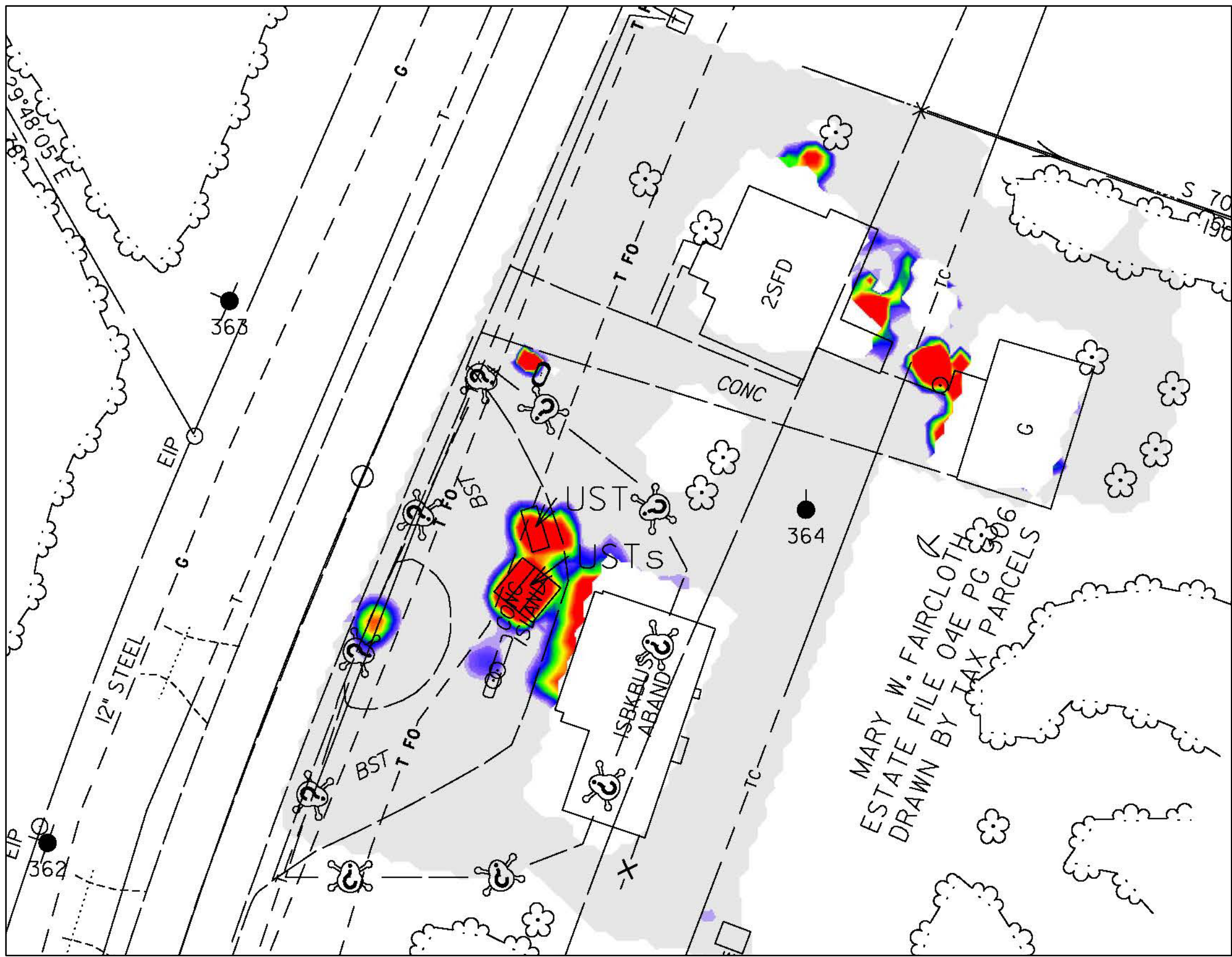
See Figure 8 for explanation of symbols and line types

PROJECT NO.	EQ02.309
SCALE	1" = 30'
DATE	4/26/18
BY	DMN

FIGURE 6 – 10052 US 17 HWY N
EM61 EARLY TIME GATE RESPONSE ON PLAN SHEET
US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON



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 7011 Albert Pick Rd.,
 Suite E
 Greensboro, NC 27409
 336.334.7724
 www.espassociates.com



List of NCDOT reference files
 R2511_Geo_env_ESP.dgn
 R2511_NCDOT_FS.dgn

See Figure 8 for explanation of symbols and line types

PROJECT NO.	EQ02.309
SCALE	1" = 30'
DATE	4/26/18
BY	DMN

FIGURE 7 – 10052 US 17 HWY N
EM61 DIFFERENTIAL RESPONSE ON PLAN SHEET
 US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON



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 7011 Albert Pick Rd.,
 Suite E
 Greensboro, NC 27409
 336.334.7724
 www.espassociates.com

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

State Line	—————
County Line	—————
Township Line	—————
City Line	—————
Reservation Line	—————
Property Line	—————
Existing Iron Pin	○
Property Corner	⊕
Property Monument	⊕
Parcel/Sequence Number	⊕
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Existing Historic Property Boundary	-----
Known Contamination Area: Soil	⊗
Potential Contamination Area: Soil	⊗
Known Contamination Area: Water	⊗
Potential Contamination Area: Water	⊗
Contaminated Site: Known or Potential	⊗

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊕
Well	⊕
Small Mine	⊕
Foundation	⊕
Area Outline	⊕
Cemetery	⊕
Building	⊕
School	⊕
Church	⊕
Dam	⊕

HYDROLOGY:

Stream or Body of Water	—————
Hydro, Pool or Reservoir	⊕
Jurisdictional Stream	—JS—
Buffer Zone 1	—BZ 1—
Buffer Zone 2	—BZ 2—
Flow Arrow	→
Disappearing Stream	→
Spring	○
Wetland	⊕
Proposed Lateral, Tail, Head Ditch	———
False Sump	⊕

RAILROADS:

Standard Gauge	—————
RR Signal Milepost	⊕
Switch	⊕
RR Abandoned	—————
RR Dismantled	—————

RIGHT OF WAY:

Baseline Control Point	⊕
Existing Right of Way Marker	⊕
Existing Right of Way Line	—————
Proposed Right of Way Line	—————
Proposed Right of Way Line with Iron Pin and Cap Marker	⊕
Proposed Right of Way Line with Concrete or Granite R/W Marker	⊕
Proposed Control of Access Line with Concrete C/A Marker	⊕
Existing Control of Access	⊕
Proposed Control of Access	⊕
Existing Easement Line	—E—
Proposed Temporary Construction Easement	—E—
Proposed Temporary Drainage Easement	—TDE—
Proposed Permanent Drainage Easement	—PDE—
Proposed Permanent Drainage / Utility Easement	—DUE—
Proposed Permanent Utility Easement	—PUE—
Proposed Temporary Utility Easement	—TUE—
Proposed Aerial Utility Easement	—AUE—
Proposed Permanent Easement with Iron Pin and Cap Marker	⊕

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	—————
Existing Curb	—————
Proposed Slope Stakes Cut	—————
Proposed Slope Stakes Fill	—————
Proposed Curb Ramp	⊕
Existing Metal Guardrail	—————
Proposed Guardrail	—————
Existing Cable Guiderail	—————
Proposed Cable Guiderail	—————
Equality Symbol	⊕
Pavement Removal	⊕

VEGETATION:

Single Tree	⊕
Single Shrub	⊕
Hedge	—————
Woods Line	—————

Orchard	⊕
Vineyard	⊕

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	—————
Bridge Wing Wall, Head Wall and End Wall	⊕
MINOR:	
Head and End Wall	⊕
Pipe Culvert	—————
Footbridge	—————
Drainage Box: Catch Basin, DI or JB	⊕
Paved Ditch Gutter	—————
Storm Sewer Manhole	⊕
Storm Sewer	—————

UTILITIES:

POWER:	
Existing Power Pole	⊕
Proposed Power Pole	⊕
Existing Joint Use Pole	⊕
Proposed Joint Use Pole	⊕
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	⊕
H-Frame Pole	⊕
U/G Power Line LOS B (S.U.E.*)	—————
U/G Power Line LOS C (S.U.E.*)	—————
U/G Power Line LOS D (S.U.E.*)	—————

TELEPHONE:

Existing Telephone Pole	⊕
Proposed Telephone Pole	⊕
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
U/G Telephone Cable LOS B (S.U.E.*)	—————
U/G Telephone Cable LOS C (S.U.E.*)	—————
U/G Telephone Cable LOS D (S.U.E.*)	—————
U/G Telephone Conduit LOS B (S.U.E.*)	—————
U/G Telephone Conduit LOS C (S.U.E.*)	—————
U/G Telephone Conduit LOS D (S.U.E.*)	—————
U/G Fiber Optics Cable LOS B (S.U.E.*)	—————
U/G Fiber Optics Cable LOS C (S.U.E.*)	—————
U/G Fiber Optics Cable LOS D (S.U.E.*)	—————

WATER:

Water Manhole	⊕
Water Meter	⊕
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	—————
U/G Water Line LOS C (S.U.E.*)	—————
U/G Water Line LOS D (S.U.E.*)	—————
Above Ground Water Line	—————

TV:

TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
U/G TV Cable LOS B (S.U.E.*)	—————
U/G TV Cable LOS C (S.U.E.*)	—————
U/G TV Cable LOS D (S.U.E.*)	—————
U/G Fiber Optic Cable LOS B (S.U.E.*)	—————
U/G Fiber Optic Cable LOS C (S.U.E.*)	—————
U/G Fiber Optic Cable LOS D (S.U.E.*)	—————

GAS:

Gas Valve	⊕
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	—————
U/G Gas Line LOS C (S.U.E.*)	—————
U/G Gas Line LOS D (S.U.E.*)	—————
Above Ground Gas Line	—————

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	—————
Above Ground Sanitary Sewer	—————
SS Forced Main Line LOS B (S.U.E.*)	—————
SS Forced Main Line LOS C (S.U.E.*)	—————
SS Forced Main Line LOS D (S.U.E.*)	—————

MISCELLANEOUS:

Utility Pole	⊕
Utility Pole with Base	⊕
Utility Located Object	⊕
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	—————
U/G Tank; Water, Gas, Oil	⊕
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	⊕
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PROJECT NO.	EQ02.309
SCALE	N/A
DATE	4/26/18
BY	DMN

FIGURE 8
LEGEND FOR PLAN SHEET FIGURES

US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTILANES SOUTH OF WILLIAMSTON



ESP Associates, Inc.
7011 Albert Pick Rd.,
Suite E
Greensboro, NC 27409
336.334.7724
www.espassociates.com

APPENDIX C

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-1**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort county, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER: 1.32 ft btoc

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
1.5	0.0				MH/SM	GRAY SILT AND SAND
3	0.0				SC/CH	GRAY CLAYEY SAND. Soils appeared saturated at approximately 7 ft. bgs.
4.5						
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-1**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort county, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER: 1.32 ft btoc

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
12						GRAY CLAYEY SAND. Soils appeared saturated at approximately 7 ft. bgs.
13.5						
15					SC/CH	BORING TERMINATED.
16.5						
18						
19.5						
21						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. SS-2:SS-4

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION:
Washington, Beaufort county, North Carolina

ELEVATION:

DRILLER:
Quantex

DATE DRILLED:
04/20/2018

LOGGED BY:
S. Kordon/ J. Sikes (ECS)

DRILL RIG:
GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0					SC/CH	GRAY CLAYEY SAND
1.5					SC/CH	
3					SC/CH	
4.5					SC/CH	
0.0					SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-5**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.5					SC/CH	DARK GRAY CLAYEY SAND
1.5					SC/CH	
3					SC/CH	
4.5					SC/CH	
0.0					SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-6/SS-7**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0	0.0				SC/CH	LIGHT GRAY CLAYEY SAND
1.5					SC/CH	
3					SC/CH	
4.5					SC/CH	
6					SC/CH	BORING TERMINATED
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. SS-8

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION:
Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER:
Quantex

DATE DRILLED:
04/20/2018

LOGGED BY:
S. Kordon/ J. Sikes (ECS)

DRILL RIG:
GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
9.4					SC/CH	GRAY CLAYEY SAND - SLIGHT PETROLEUM ODOR
1.5					SC/CH	
3					SC/CH	
4.5					SC/CH	
0.0					SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-9**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER: 1.68 ft btoc

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0	0.0					DARK GRAY CLAYEY SAND
1.5						
27.4						DARK GRAY CLAYEY SAND - STRONG PETROLEUM ODOR. Soils appeared saturated at approximately 7 ft. bgs.
4.5						
6						
7.5					SC/CH	
9					SC/CH	
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-9**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER: 1.68 ft btoc

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
12						DARK GRAY CLAYEY SAND - STRONG PETROLEUM ODOR. Soils appeared saturated at approximately 7 ft. bgs.
13.5						
15						BORING TERMINATED
16.5						
18						
19.5						
21						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. SS-10

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION:
Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER:
Quantex

DATE DRILLED:
04/20/2018

LOGGED BY:
S. Kordon/ J. Sikes (ECS)

DRILL RIG:
GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0						DARK GRAY CLAYEY SAND
1.5					SC/CH	
3						
4.5	120				SC/CH	DARK GRAY CLAYEY SAND
6						BORING TERMINATED
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. SS-11

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION:
Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER:
Quantex

DATE DRILLED:
04/20/2018

LOGGED BY:
S. Kordon/ J. Sikes (ECS)

DRILL RIG:
GeoProbe

DEPTH TO WATER:
7

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Asphalt	ASPHALT/ AUGER SPOIL
0.0					SC/CH	GRAY CLAYEY SAND
1.5						
3						
4.5						
0.0						GRAY SANDY CLAY WITH SILTS - SATURATED AROUND 7 FT. BGS.
6						
7.5					VC	
9						
10.5						BORING TERMINATED.

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-12**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0					SC/CH	GRAY CLAYEY SAND
1.5						
3						
4.5						
0.0					SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-13**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0					SC/CH	RED AND GRAY CLAYEY SAND
1.5						
3						
4.5						
0.0					SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

PROJECT: NCDOT WBS Element 35494.1.1

BORING NUM. **SS-14/SS-15**

CLIENT: NCDOT

PROJECT NO. 49:6617



LOCATION: Washington, Beaufort County, North Carolina

ELEVATION:

DRILLER: Quantex

DATE DRILLED: 04/20/2018

LOGGED BY: S. Kordon/ J. Sikes (ECS)

DRILL RIG: GeoProbe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.0				Topsoil	
0.0	0.0				SC/CH	DARK GRAY CLAYEY SAND
1.5						
3						
4.5						
0.0	0.0				SC/CH	BORING TERMINATED
6						
7.5						
9						
10.5						

APPENDIX D



Hydrocarbon Analysis Results

Client: ECS RALEIGH
Address: 9001 GLENWOOD AVE
 RALEIGH NC

Samples taken Thursday, April 19, 2018
Samples extracted Thursday, April 19, 2018
Samples analysed Friday, April 20, 2018

Contact: SARAH KORDON

Operator NICK HENDRIX

Project: #49:6617 FAIRCLOTH

U00904

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	SS-1	17.0	<0.85	<0.42	0.06	0.06	0.08	<0.02	<0.008	88.8	10.3	0.8	V.Deg.PHC 80%,(FCM),(OCR)
s	SS-2	17.2	<0.43	<0.43	<0.03	<0.43	<0.09	<0.02	<0.009	0	100	0	Residual HC,(OCR)
s	SS-3	18.4	<0.92	2.3	1.6	3.9	0.97	0.03	<0.009	74	25.1	0.8	V.Deg.PHC 79.2%,(FCM)
s	SS-4	17.1	<0.86	0.45	<0.03	0.45	<0.09	<0.02	<0.009	100	0	0	Residual HC,(OCR)
s	SS-5	16.4	<0.41	<0.41	11.5	11.5	6.3	0.31	<0.008	0	97.8	2	Deg.PHC 78.8%,(FCM)
s	SS-6	61.7	<3.1	<1.5	<0.12	<1.5	<0.31	<0.06	<0.031	0	85.3	13	Residual HC,(BO),(P)
s	SS-7	17.0	<0.85	0.69	0.34	1.03	0.34	<0.02	<0.008	70.7	29	0.3	V.Deg.PHC 58.4%,(FCM),(OCR)
s	SS-8	18.6	<0.46	9.9	19.8	29.7	5.4	0.19	<0.009	68.8	31.2	0.1	Deg.Diesel 78.5%,(FCM),(P)
s	SS-9	54.3	5.9	31.9	19.3	51.2	4.2	0.15	<0.027	90	9.9	0	Deg Gas 87.4%,(FCM)
s	SS-10	17.3	<0.43	68.4	79.9	148.3	34.2	1.2	<0.009	70.6	29.3	0	Deg Gas 78.2%,(FCM),(BO)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

99.9 %

Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.
 Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected
 B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.
 % Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only. **Data generated by HC-1 Analyser**



Hydrocarbon Analysis Results

Client: ECS RALEIGH
Address: 9001 GLENWOOD AVE
 RALEIGH NC

Samples taken Thursday, April 19, 2018
Samples extracted Thursday, April 19, 2018
Samples analysed Friday, April 20, 2018

Contact: SARAH KORDON

Operator NICK HENDRIX

Project: #49:6617 FAIRCLOTH

U00904

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	SS-11	17.3	<0.43	<0.43	<0.03	<0.43	<0.09	<0.02	<0.009	0	0	0	PHC not detected,(OCR)
s	SS-12	16.7	<0.42	<0.42	0.23	0.23	0.08	<0.02	<0.008	0	100	0	Deg Fuel 25%,(FCM),(OCR),(P)
s	SS-13	17.0	<0.85	1.1	<0.03	1.1	<0.08	<0.02	<0.008	100	0	0	Deg.Light.Fuel 66.6%,(FCM)
s	SS-14	18.8	<0.47	<0.47	0.56	0.56	0.56	0.03	<0.009	0	87.7	11.2	V.Deg.PHC 56.4%,(FCM),(BO),(P)
s	SS-15	17.9	<0.45	<0.45	0.69	0.69	0.38	<0.02	<0.009	0	97.7	2	V.Deg.Diesel 79.1%,(FCM),(OCR),(P)

Initial Calibrator QC check OK

Final FCM QC Check OK

98.2 %

Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.
 Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected
 B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.
 % Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only. **Data generated by HC-1 Analyser**

Batch 78

Client Name: EUS Distributor
 Address: 9901 Ashwood Ave Raleigh NC
 Contact: SARA H KOPRON
 Project Ref.: 49:6677 Failure Work
 Email: SKOPRON@ECSUNITE.COM
 Phone #: 919 616 8195
 Collected by: SARA H KOPRON

RED LAB
 RAPID ENVIRONMENTAL DIAGNOSTICS
 CHAIN OF CUSTODY AND ANALYTICAL
 REQUEST FORM

RED Lab, LLC
 5598 Marvin K Moss Lane
 MARRIONC Bldg, Suite 2003
 Wilmington, NC 28409
 Each sample will be analyzed for
 BTEX, GRO, DRO, TPH, PAH total
 aromatics and Bap

Sample Collection Date/Time	TAT Requested 24 Hour 48 Hour	Initials	Sample ID	Total Wt.	Tare Wt.	Sample Wt.
4/19/2018 11:50		PK	SS-1	59.1	43.8	15.3
12:05	X		SS-2	59.6	43.5	15.1
13:56			SS-3	58.8	44.7	14.1
14:04			SS-4	57.2	41.8	15.2
10:45			SS-5	60.3	44.4	15.9
10:30			SS-6	58.6	45.3	13.3
11:19			SS-7	60.2	44.7	15.3
10:15			SS-8	57.6	43.6	14.2
10:05			SS-9	58.4	43.3	15.1
10:40			SS-10	60.5	45.5	15.2
9:50			SS-11	58.9	43.9	15.2
10:00			SS-12	59.2	43.6	15.6
14:32			SS-13	59.6	46.3	15.3
14:13			SS-14	57.1	43.3	13.8
11:15			SS-15	59.8	45.3	14.5

Comments:

48-H TAT Turnaround!

Relinquished by: SARA H KOPRON (EUS) Date/Time: 4/19/2018 16:40
 Relinquished by: N F Date/Time: 4/19/18 18:27

RED Lab USE ONLY

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SC Certification No. 99012

Case Narrative

05/04/2018

ECS Carolinas, LLP (Raleigh)
Sarah Kordon
9001 Glenwood Ave.
Raleigh, NC 27617

Project: NCDOT Faircloth Property
Project No.: WBS# 35494.1.1 R-2511
Lab Submittal Date: 04/24/2018
Prism Work Order: 8040469

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Angela D. Overcash
VP Laboratory Services

Data Qualifiers Key Reference:

- A Dilution performed outside of hold time. Original run within hold time
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SS-1-TW	8040469-01	Water	04/19/18	04/24/18
SS-9-TW	8040469-02	Water	04/19/18	04/24/18

Samples were received in good condition at 3.4 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result		Units
8040469-01	SS-1-TW	Acetone	SM6200 B	6.3	J	ug/L
8040469-02	SS-9-TW	1,2,4-Trimethylbenzene	SM6200 B	2200	A	ug/L
8040469-02	SS-9-TW	1,3,5-Trimethylbenzene	SM6200 B	660	A	ug/L
8040469-02	SS-9-TW	4-Isopropyltoluene	SM6200 B	10		ug/L
8040469-02	SS-9-TW	Benzene	SM6200 B	86		ug/L
8040469-02	SS-9-TW	Ethylbenzene	SM6200 B	2500	A	ug/L
8040469-02	SS-9-TW	Isopropyl Ether	SM6200 B	1.0		ug/L
8040469-02	SS-9-TW	Isopropylbenzene (Cumene)	SM6200 B	95		ug/L
8040469-02	SS-9-TW	m,p-Xylenes	SM6200 B	8500	A	ug/L
8040469-02	SS-9-TW	Naphthalene	SM6200 B	360	A	ug/L
8040469-02	SS-9-TW	n-Propylbenzene	SM6200 B	320	A	ug/L
8040469-02	SS-9-TW	o-Xylene	SM6200 B	3700	A	ug/L
8040469-02	SS-9-TW	sec-Butylbenzene	SM6200 B	15		ug/L
8040469-02	SS-9-TW	Styrene	SM6200 B	85		ug/L
8040469-02	SS-9-TW	tert-Butylbenzene	SM6200 B	0.68		ug/L
8040469-02	SS-9-TW	Toluene	SM6200 B	5500	A	ug/L
8040469-02	SS-9-TW	Xylenes, total	SM6200 B	12000	A	ug/L

ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No.: WBS# 35494.1.1 R-2511
 Sample Matrix: Water

Client Sample ID: SS-1-TW
 Prism Sample ID: 8040469-01
 Prism Work Order: 8040469
 Time Collected: 04/19/18 14:25
 Time Submitted: 04/24/18 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/ECD									
1,2-Dibromoethane (EDB)	BRL	ug/L	0.021	0.0025	1	504.1	5/1/18 17:12	JMV	P8E0030
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Acetone	6.3 J	ug/L	10	0.31	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	5/3/18 1:12	KDM	P8E0080

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ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No.: WBS# 35494.1.1 R-2511
 Sample Matrix: Water

Client Sample ID: SS-1-TW
 Prism Sample ID: 8040469-01
 Prism Work Order: 8040469
 Time Collected: 04/19/18 14:25
 Time Submitted: 04/24/18 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Ethanol	BRL	ug/L	200	27	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	5/3/18 1:12	KDM	P8E0080
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	5/3/18 1:12	KDM	P8E0080

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	104 %	70-130
Toluene-d8	100 %	70-130

ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No.: WBS# 35494.1.1 R-2511
 Sample Matrix: Water

Client Sample ID: SS-9-TW
 Prism Sample ID: 8040469-02
 Prism Work Order: 8040469
 Time Collected: 04/19/18 13:50
 Time Submitted: 04/24/18 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/ECD									
1,2-Dibromoethane (EDB)	BRL	ug/L	0.022	0.0027	1	504.1	5/1/18 17:43	JMV	P8E0030
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2,4-Trimethylbenzene	2200 A	ug/L	50	5.4	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,3,5-Trimethylbenzene	660 A	ug/L	50	7.6	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
4-Isopropyltoluene	10	ug/L	0.50	0.089	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Benzene	86	ug/L	0.50	0.048	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	5/3/18 1:46	KDM	P8E0080

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ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No.: WBS# 35494.1.1 R-2511
 Sample Matrix: Water

Client Sample ID: SS-9-TW
 Prism Sample ID: 8040469-02
 Prism Work Order: 8040469
 Time Collected: 04/19/18 13:50
 Time Submitted: 04/24/18 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Ethanol	BRL	ug/L	200	27	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Ethylbenzene	2500 A	ug/L	50	6.1	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Isopropyl Ether	1.0	ug/L	0.50	0.050	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Isopropylbenzene (Cumene)	95	ug/L	0.50	0.054	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
m,p-Xylenes	8500 A	ug/L	100	12	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Naphthalene	360 A	ug/L	100	19	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
n-Propylbenzene	320 A	ug/L	50	8.7	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
o-Xylene	3700 A	ug/L	50	4.4	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
sec-Butylbenzene	15	ug/L	0.50	0.076	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Styrene	85	ug/L	0.50	0.047	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
tert-Butylbenzene	0.68	ug/L	0.50	0.088	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Toluene	5500 A	ug/L	50	4.4	100	SM6200 B	5/4/18 3:50	KDM	P8E0080
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	5/3/18 1:46	KDM	P8E0080
Xylenes, total	12000 A	ug/L	150	15	100	SM6200 B	5/4/18 3:50	KDM	P8E0080

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	108 %	70-130
Dibromofluoromethane	96 %	70-130
Toluene-d8	90 %	70-130

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ECS Carolinas, LLP (Raleigh)
Attn: Sarah Kordon
9001 Glenwood Ave.
Raleigh, NC 27617

Project: NCDOT Faircloth Property
Project No: WBS# 35494.1.1
R-2511

Prism Work Order: 8040469
Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0080 - SM6200 B										
Blank (P8E0080-BLK1)										
Prepared & Analyzed: 05/02/18										
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

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 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No: WBS# 35494.1.1
 R-2511

Prism Work Order: 8040469
 Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0080 - SM6200 B										
Blank (P8E0080-BLK1)				Prepared & Analyzed: 05/02/18						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	51.8		ug/L	50.00		104	70-130			
<i>Surrogate: Dibromofluoromethane</i>	50.4		ug/L	50.00		101	70-130			
<i>Surrogate: Toluene-d8</i>	48.8		ug/L	50.00		98	70-130			
LCS (P8E0080-BS1)				Prepared & Analyzed: 05/02/18						
1,1,1,2-Tetrachloroethane	20.9	0.50	ug/L	20.00		105	70-130			
1,1,1-Trichloroethane	20.9	0.50	ug/L	20.00		105	70-130			
1,1,2,2-Tetrachloroethane	21.1	0.50	ug/L	20.00		106	70-130			
1,1,2-Trichloroethane	20.0	0.50	ug/L	20.00		100	70-130			
1,1-Dichloroethane	20.9	0.50	ug/L	20.00		105	70-130			
1,1-Dichloroethylene	21.7	0.50	ug/L	20.00		109	70-130			
1,1-Dichloropropylene	21.2	0.50	ug/L	20.00		106	70-130			
1,2,3-Trichlorobenzene	19.1	0.50	ug/L	20.00		95	70-130			
1,2,3-Trichloropropane	19.0	0.50	ug/L	20.00		95	70-130			
1,2,4-Trichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,2,4-Trimethylbenzene	21.2	0.50	ug/L	20.00		106	70-130			
1,2-Dibromo-3-chloropropane	20.5	2.0	ug/L	20.00		102	70-130			
1,2-Dibromoethane	20.1	0.50	ug/L	20.00		101	70-130			
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,2-Dichloroethane	21.2	0.50	ug/L	20.00		106	70-130			
1,2-Dichloropropane	21.2	0.50	ug/L	20.00		106	70-130			
1,3,5-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
1,3-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
1,3-Dichloropropane	21.5	0.50	ug/L	20.00		108	70-130			
1,4-Dichlorobenzene	19.0	0.50	ug/L	20.00		95	70-130			

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ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No: WBS# 35494.1.1
 R-2511

Prism Work Order: 8040469
 Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0080 - SM6200 B										
LCS (P8E0080-BS1)										
Prepared & Analyzed: 05/02/18										
2,2-Dichloropropane	20.9	2.0	ug/L	20.00		105	70-130			
2-Chlorotoluene	20.1	0.50	ug/L	20.00		100	70-130			
4-Chlorotoluene	20.5	0.50	ug/L	20.00		102	70-130			
4-Isopropyltoluene	21.6	0.50	ug/L	20.00		108	70-130			
Acetone	38.6	10	ug/L	40.00		97	40-160			
Benzene	21.4	0.50	ug/L	20.00		107	70-130			
Bromobenzene	19.4	0.50	ug/L	20.00		97	70-130			
Bromochloromethane	19.4	0.50	ug/L	20.00		97	70-130			
Bromodichloromethane	21.2	0.50	ug/L	20.00		106	70-130			
Bromoform	21.1	0.50	ug/L	20.00		105	70-130			
Bromomethane	13.5	1.0	ug/L	20.00		68	60-140			
Carbon Tetrachloride	20.9	0.50	ug/L	20.00		104	70-130			
Chlorobenzene	19.8	0.50	ug/L	20.00		99	70-130			
Chloroethane	18.0	0.50	ug/L	20.00		90	60-140			
Chloroform	20.5	0.50	ug/L	20.00		102	70-130			
Chloromethane	17.3	0.50	ug/L	20.00		87	60-140			
cis-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00		97	70-130			
cis-1,3-Dichloropropylene	22.4	0.50	ug/L	20.00		112	70-130			
Dibromochloromethane	21.7	0.50	ug/L	20.00		109	70-130			
Dibromomethane	20.7	0.50	ug/L	20.00		104	70-130			
Dichlorodifluoromethane	16.0	1.0	ug/L	20.00		80	60-140			
Ethanol	646	200	ug/L	500.0		129	60-140			
Ethylbenzene	20.9	0.50	ug/L	20.00		105	70-130			
Hexachlorobutadiene	19.8	2.0	ug/L	20.00		99	70-130			
Isopropyl Ether	20.6	0.50	ug/L	20.00		103	70-130			
Isopropylbenzene (Cumene)	21.5	0.50	ug/L	20.00		108	70-130			
m,p-Xylenes	42.5	1.0	ug/L	40.00		106	70-130			
Methyl Butyl Ketone (2-Hexanone)	20.0	1.0	ug/L	20.00		100	60-140			
Methyl Ethyl Ketone (2-Butanone)	19.6	5.0	ug/L	20.00		98	60-140			
Methyl Isobutyl Ketone	20.0	1.0	ug/L	20.00		100	60-140			
Methylene Chloride	20.6	2.0	ug/L	20.00		103	70-130			
Methyl-tert-Butyl Ether	19.5	1.0	ug/L	20.00		98	70-130			
Naphthalene	18.8	1.0	ug/L	20.00		94	70-130			
n-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-130			
n-Propylbenzene	21.0	0.50	ug/L	20.00		105	70-130			
o-Xylene	21.2	0.50	ug/L	20.00		106	70-130			
sec-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
Styrene	21.3	0.50	ug/L	20.00		106	70-130			
tert-Butylbenzene	21.3	0.50	ug/L	20.00		107	70-130			
Tetrachloroethylene	20.3	0.50	ug/L	20.00		102	70-130			
Toluene	21.4	0.50	ug/L	20.00		107	70-130			
trans-1,2-Dichloroethylene	21.3	0.50	ug/L	20.00		107	70-130			
trans-1,3-Dichloropropylene	22.8	0.50	ug/L	20.00		114	70-130			
Trichloroethylene	20.9	0.50	ug/L	20.00		105	70-130			
Trichlorofluoromethane	17.8	0.50	ug/L	20.00		89	60-140			
Vinyl acetate	22.0	5.0	ug/L	20.00		110	60-140			

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ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No: WBS# 35494.1.1
 R-2511

Prism Work Order: 8040469
 Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0080 - SM6200 B										
LCS (P8E0080-BS1)				Prepared & Analyzed: 05/02/18						
Vinyl chloride	18.3	0.50	ug/L	20.00		92	60-140			
Xylenes, total	63.7	1.5	ug/L	60.00		106	70-130			
Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	50.4		ug/L	50.00		101	70-130			
Surrogate: Toluene-d8	48.6		ug/L	50.00		97	70-130			
LCS Dup (P8E0080-BSD1)				Prepared & Analyzed: 05/02/18						
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/L	20.00		105	70-130	0.7	20	
1,1,1-Trichloroethane	20.5	0.50	ug/L	20.00		102	70-130	2	20	
1,1,2,2-Tetrachloroethane	21.2	0.50	ug/L	20.00		106	70-130	0.05	20	
1,1,2-Trichloroethane	20.4	0.50	ug/L	20.00		102	70-130	2	20	
1,1-Dichloroethane	19.5	0.50	ug/L	20.00		97	70-130	7	20	
1,1-Dichloroethylene	20.5	0.50	ug/L	20.00		103	70-130	6	20	
1,1-Dichloropropylene	21.1	0.50	ug/L	20.00		105	70-130	0.8	20	
1,2,3-Trichlorobenzene	19.3	0.50	ug/L	20.00		97	70-130	1	20	
1,2,3-Trichloropropane	19.6	0.50	ug/L	20.00		98	70-130	3	20	
1,2,4-Trichlorobenzene	20.0	0.50	ug/L	20.00		100	70-130	2	20	
1,2,4-Trimethylbenzene	21.1	0.50	ug/L	20.00		105	70-130	0.5	20	
1,2-Dibromo-3-chloropropane	20.8	2.0	ug/L	20.00		104	70-130	1	20	
1,2-Dibromoethane	20.2	0.50	ug/L	20.00		101	70-130	0.3	20	
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	70-130	2	20	
1,2-Dichloroethane	21.1	0.50	ug/L	20.00		106	70-130	0.5	20	
1,2-Dichloropropane	20.8	0.50	ug/L	20.00		104	70-130	2	20	
1,3,5-Trimethylbenzene	21.1	0.50	ug/L	20.00		105	70-130	2	20	
1,3-Dichlorobenzene	19.6	0.50	ug/L	20.00		98	70-130	3	20	
1,3-Dichloropropane	21.0	0.50	ug/L	20.00		105	70-130	3	20	
1,4-Dichlorobenzene	19.3	0.50	ug/L	20.00		97	70-130	2	20	
2,2-Dichloropropane	20.3	2.0	ug/L	20.00		101	70-130	3	20	
2-Chlorotoluene	20.2	0.50	ug/L	20.00		101	70-130	0.7	20	
4-Chlorotoluene	20.2	0.50	ug/L	20.00		101	70-130	2	20	
4-Isopropyltoluene	21.2	0.50	ug/L	20.00		106	70-130	2	20	
Acetone	36.9	10	ug/L	40.00		92	40-160	4	20	
Benzene	20.9	0.50	ug/L	20.00		104	70-130	2	20	
Bromobenzene	19.9	0.50	ug/L	20.00		100	70-130	3	20	
Bromochloromethane	20.2	0.50	ug/L	20.00		101	70-130	4	20	
Bromodichloromethane	20.5	0.50	ug/L	20.00		103	70-130	3	20	
Bromoform	21.3	0.50	ug/L	20.00		107	70-130	1	20	
Bromomethane	13.4	1.0	ug/L	20.00		67	60-140	1	20	
Carbon Tetrachloride	20.9	0.50	ug/L	20.00		105	70-130	0.2	20	
Chlorobenzene	19.4	0.50	ug/L	20.00		97	70-130	2	20	
Chloroethane	16.9	0.50	ug/L	20.00		85	60-140	6	20	
Chloroform	19.7	0.50	ug/L	20.00		99	70-130	4	20	
Chloromethane	16.4	0.50	ug/L	20.00		82	60-140	5	20	
cis-1,2-Dichloroethylene	18.9	0.50	ug/L	20.00		95	70-130	2	20	
cis-1,3-Dichloropropylene	21.8	0.50	ug/L	20.00		109	70-130	3	20	
Dibromochloromethane	21.1	0.50	ug/L	20.00		106	70-130	3	20	
Dibromomethane	20.0	0.50	ug/L	20.00		100	70-130	4	20	

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ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No: WBS# 35494.1.1
 R-2511

Prism Work Order: 8040469
 Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0080 - SM6200 B										
LCS Dup (P8E0080-BSD1)										
Prepared & Analyzed: 05/02/18										
Dichlorodifluoromethane	15.4	1.0	ug/L	20.00		77	60-140	4	20	
Ethanol	539	200	ug/L	500.0		108	60-140	18	20	
Ethylbenzene	20.0	0.50	ug/L	20.00		100	70-130	5	20	
Hexachlorobutadiene	20.2	2.0	ug/L	20.00		101	70-130	2	20	
Isopropyl Ether	20.1	0.50	ug/L	20.00		100	70-130	2	20	
Isopropylbenzene (Cumene)	21.5	0.50	ug/L	20.00		107	70-130	0.3	20	
m,p-Xylenes	41.8	1.0	ug/L	40.00		105	70-130	2	20	
Methyl Butyl Ketone (2-Hexanone)	20.5	1.0	ug/L	20.00		102	60-140	2	20	
Methyl Ethyl Ketone (2-Butanone)	19.8	5.0	ug/L	20.00		99	60-140	1	20	
Methyl Isobutyl Ketone	19.8	1.0	ug/L	20.00		99	60-140	0.7	20	
Methylene Chloride	19.7	2.0	ug/L	20.00		98	70-130	5	20	
Methyl-tert-Butyl Ether	19.6	1.0	ug/L	20.00		98	70-130	0.4	20	
Naphthalene	18.8	1.0	ug/L	20.00		94	70-130	0	20	
n-Butylbenzene	21.3	0.50	ug/L	20.00		106	70-130	1	20	
n-Propylbenzene	20.7	0.50	ug/L	20.00		104	70-130	2	20	
o-Xylene	20.5	0.50	ug/L	20.00		103	70-130	3	20	
sec-Butylbenzene	21.3	0.50	ug/L	20.00		106	70-130	0.8	20	
Styrene	20.1	0.50	ug/L	20.00		100	70-130	6	20	
tert-Butylbenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
Tetrachloroethylene	19.6	0.50	ug/L	20.00		98	70-130	3	20	
Toluene	20.7	0.50	ug/L	20.00		104	70-130	3	20	
trans-1,2-Dichloroethylene	20.6	0.50	ug/L	20.00		103	70-130	4	20	
trans-1,3-Dichloropropylene	22.4	0.50	ug/L	20.00		112	70-130	2	20	
Trichloroethylene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
Trichlorofluoromethane	17.4	0.50	ug/L	20.00		87	60-140	2	20	
Vinyl acetate	22.5	5.0	ug/L	20.00		112	60-140	2	20	
Vinyl chloride	17.4	0.50	ug/L	20.00		87	60-140	5	20	
Xylenes, total	62.4	1.5	ug/L	60.00		104	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	50.6		ug/L	50.00		101	70-130			
Surrogate: Toluene-d8	49.9		ug/L	50.00		100	70-130			



ECS Carolinas, LLP (Raleigh)
 Attn: Sarah Kordon
 9001 Glenwood Ave.
 Raleigh, NC 27617

Project: NCDOT Faircloth Property
 Project No: WBS# 35494.1.1
 R-2511

Prism Work Order: 8040469
 Time Submitted: 4/24/2018 2:30:00PM

Volatile Organic Compounds by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8E0030 - 504.1										
Blank (P8E0030-BLK1)				Prepared & Analyzed: 05/01/18						
1,2-Dibromoethane (EDB)	BRL	0.020	ug/L							
LCS (P8E0030-BS1)				Prepared & Analyzed: 05/01/18						
1,2-Dibromoethane (EDB)	0.243	0.020	ug/L	0.2514		97	70-130			
LCS Dup (P8E0030-BSD1)				Prepared & Analyzed: 05/01/18						
1,2-Dibromoethane (EDB)	0.248	0.020	ug/L	0.2514		99	70-130	2	20	

Sample Extraction Data

Prep Method: 504.1

Lab Number	Batch	Initial	Final	Date/Time
8040469-01	P8E0030	32.98 mL	35 mL	05/01/18 14:45
8040469-02	P8E0030	31.45 mL	35 mL	05/01/18 14:45

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
8040469-01	P8E0080	10 mL	10 mL	05/02/18 10:21
8040469-02	P8E0080	10 mL	10 mL	05/02/18 10:21
8040469-02	P8E0080	10 mL	10 mL	05/02/18 10:21

Client Company Name: **ECG PARKWAY**
 Report To/Contact Name: **SHARAH KOPPON**
 Reporting Address: **4001 GARDENWAY DR
 PANDORA, NC**

Phone: **919 616 8145** Fax (Yes) (No):
 Email Address: **SKOPPON@ECGLIMITED.COM**
 EDD Type: PDF Excel Other
 Site Location Name: **FALLWATER WASTEWATER**
 Site Location Physical Address: **BEAUFORT COUNTY**

CHAIN OF CUSTODY RECORD

PAGE **1** OF **1** QUOTE # TO ENSURE PROPER BILLING:
 Project Name: **WBS: 35494.1.1 R-2511 FANWATER**
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IV)
 provisions and/or QC Requirements
 Invoice To: **WBS 35494.1.1**
 Address:

Purchase Order No./Billing Reference: **4300350490**
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 Samples received after 14:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
 RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival?	YES	NO	N/A
Received ON WET ICE?			
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?			
CUSTODY SEALS INTACT?			
VOLATILES rec'd W/OUT HEADSPACE?			
PROPER CONTAINERS used?			
TEMP: Therm ID: 125-7 Observed: 7.0 °C / Corr: 5.1 °C			

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: **NELAC** **DOD** **FL** **NC**
 Water Chlorinated: YES NO
 Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE			
SS-1-TW	4/19/2018	14:25	WWWW				HCl	X	01
SS-9-TW	L	13:50	WWWW				HCl	X	02
ANALYSIS REQUESTED									
6100B WWS 504! EDD									

Sampler's Signature: **APL**
 Sampled By (Print Name): **SHARAH KOPPON**
 Affiliation: **ECG FANWATER**
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Reinquinshed By: (Signature) _____ Received By: (Signature) _____ Date _____ Military/Hours _____
 Reinquinshed By: (Signature) _____ Received By: (Signature) _____ Date _____ Military/Hours _____
 Reinquinshed By: (Signature) _____ Received For Prism Laboratories By: _____ Date _____ Military/Hours _____

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 Received For Prism Laboratories By: **Sharon Heltz**
 Date: **4-24-18** 14:30
 COC Group No.: **8040469**

Additional Comments:
PRISM USE ONLY
 Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

SEE REVERSE FOR TERMS & CONDITIONS
ORIGINAL

UNDERGROUND STORAGE TANK CLOSURE REPORT

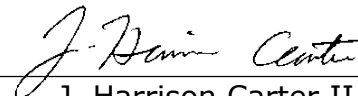
**R-2511 PARCEL 65
U.S. 17 NORTH OF NC 171 TO MULTI-LANES SOUTH OF WILLIAMSTON
8889 U.S. HIGHWAY 17 NORTH
BEAUFORT COUNTY, NORTH CAROLINA
WBS NUMBER 35494.1.1
TIP NUMBER R-2511
NCDOT PARCEL No. 65
BEAUFORT COUNTY PIN 5770-06-4184**

AUGUST 24, 2021

**PREPARED FOR
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
GEOENVIRONMENTAL SECTION
RALEIGH, NORTH CAROLINA**



David L. Duncklee P.G.
Senior Hydrogeologist
Senior Peer Review



J. Harrison Carter II, P.G.
North Carolina License No. 2675
Project Scientist

UST Closure Report

R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

EXECUTIVE SUMMARY

R-2511 Parcel 65 (Site) is located at 8889 U.S Highway 17 (U.S. 17) north of Washington in Beaufort County, North Carolina. The Site was previously developed with a gas station which had been converted into a residence, but was demolished as of the time of the field activities detailed in this report. The North Carolina Department of Transportation (NCDOT) plans to widen the two-lane portion of U.S. 17 between Washington and Williamston, North Carolina. Four underground storage tanks (USTs) were located on this property.

In 2019, Duncklee & Dunham performed a *Revised Preliminary Site Assessment Report* (PSA), which included a geophysical survey to locate the four USTs. Three of the USTs served the gasoline station pumps, which were located to the east of the former structure, and the fourth UST was a heating oil UST located to the west of the former structure.

SynTerra mobilized to the Site with Hazmat Emergency Response and Remediation, Inc. (HERR) on June 28, 2021, to close the UST system. HERR removed a concrete pad and the four USTs, loaded them onto dump trucks, and transported them to EJE Recycling and Disposal Inc. for disposal. HERR also recovered 405 gallons of water from the three gas station USTs by vacuum truck, and transported it to their own facility for disposal. Based on the results of the *Revised Preliminary Site Assessment Report* and field soil screening, it was determined that soil surrounding the tanks was not affected, so excavated soil along with additional fill soil was used to backfill the excavation.

SynTerra collected samples of groundwater pooled in the excavations for both the gas station USTs and the heating oil UST. The sample collected from the heating oil UST excavation contained several constituents that were detected at concentrations greater than North Carolina groundwater standards. The sample from the gas station UST excavation contained several analytes detected at concentrations greater than method detection limits, but none of the reported concentrations were greater than North Carolina groundwater standards. However, a groundwater sample collected during the 2019 PSA adjacent to the gas station USTs did contain analytes with concentrations greater than North Carolina groundwater standards.

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LIST OF ACRONYMS AND ABBREVIATIONS

02L standard	North Carolina Administrative Code, Title 15A, Subchapter 02L, Groundwater Standards and Classifications
bgs	below ground surface
DRO	diesel range organics
GRO	gasoline range organics
HERR	Hazmat Emergency Response and Remediation, Inc.
MADEP-EPH	Massachusetts Department of Environmental Protection Extractable Hydrocarbons
MADEP-VPH	Massachusetts Department of Environmental Protection Volatile Hydrocarbons
MDL	method detection limit
mg/kg	milligrams per killogram
NCDEQ	North Carolina Department of Environmental Quality
PID	photoionization detector
ppm	parts per million
PSA	Preliminary Site Assessment
Site	8889 U.S. 17 North, Washington NC, Parcel 65
TPH	total petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank

UST Closure Report

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Beaufort County, North Carolina

A. SITE INFORMATION

1. Site Identification

Date of Report: August 24, 2021

Facility I.D.: None, Unregistered USTs

Incident Number: Not Applicable (N/A)

Site Name: Parcel 65 UST Closure

Site Location: 8889 U.S. Highway 17 North

Nearest City/Town: Washington

Zip Code: 27889

County: Beaufort

2. Contact Information

UST Owner: Durwood Kirby Wynne Sr.

Address: 8889 U.S. 17 North, Washington, NC 27889

Phone: Unknown

UST Operator: Wynn Gulf

Address: 8889 U.S. 17 North, Washington, NC 27889

Phone: Unknown

Property Owner: Durwood Kirby Wynne Sr.

Address: 8889 U.S. 17 North, Washington, NC 27889

Phone: Unknown

Property Occupant: Vacant

Address: N/A

Phone: N/A

Consultant/Contractor: SynTerra Corporation

Address: 511 Keisler Drive, Suite 102; Cary, NC 27518

Phone: (919) 858-9898

Analytical Laboratory: Waypoint Analytical Carolinas, Inc.

State Cert. No: 404 and 37735

Address: 449 Springbrook Road, Charlotte, NC 28217

Phone: (704) 529-6364

3. Release Information

Date Discovered: April 26, 2019

Latitude: 33.6751°

Longitude: -77.0784°

Estimate Quantity of Release: Unknown

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Beaufort County, North Carolina

Cause of Release: Unknown

Source of Release (Dispenser/Piping/UST): Rusted/perforated heating oil UST, hole in one or more gas station USTs

Sizes and contents of UST system(s) from which the release occurred: Three approximately 575-gallon USTs for gas station and one approximately 200-gallon heating oil UST

B. SITE HISTORY AND CHARACTERIZATION

1. UST Owner and Operator

The Notice of Intent (Form UST-3) is included in **Appendix A**. The owner and operator is believed to have been Durwood K. Wynne, Sr.; however, there are no known facility identifications or incidents on file with the North Carolina Department of Environmental Quality (NCDEQ) underground storage tank (UST) section.

2. UST information

UST information is shown in **Table 1**. The USTs were not registered with NCDEQ. The three USTs on the eastern portion of the property, approximately 575 gallons each, were used previously to store and supply petroleum products to a dispensing island formerly located directly above the tanks. The fourth UST, located to the west of the former structure, was used to store heating oil. The heating oil UST had a capacity of approximately 200 gallons (**Table 1**).

3. Non-UST Information

SynTerra did not identify pertinent non-UST information related to the Site.

4. Description of Release

Duncklee & Dunham performed a Preliminary Site Assessment (PSA) at the Site on behalf of the North Carolina Department of Transportation (NCDOT) in April 2019. The release was confirmed when Pace Analytical reported groundwater results on April 26, 2019. SynTerra prepared a Revised PSA report dated June 14, 2019. A groundwater sample collected adjacent to and west of the three gas station USTs exhibited concentrations of naphthalene, 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, C5-C8 aliphatics, C9-C12 aliphatics, and C8-C10 aromatics greater than applicable North Carolina groundwater quality standards promulgated in Title 15A, Subchapter 02L, Section .0202 of the North Carolina Administrative Code (02L standards).

Duncklee & Dunham also screened soil from soil borings surrounding the gas station USTs and the heating oil UST with a photoionization detector (PID). PID readings ranged from 0.0 parts per million (ppm) to 363 ppm. A sample of the soil at B-6, the location of the greatest PID reading, was collected for total petroleum hydrocarbons (TPH) diesel range organics (DRO) and TPH gasoline range organics (GRO). A TPH DRO concentration of 1.9 milligrams per kilogram (mg/kg) was detected; however, this concentration is less than the NCDEQ action level of 100 mg/kg. TPH GRO was not detected at concentrations greater than laboratory reporting limits. Duncklee &

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Dunham encountered groundwater at approximately 4 feet below ground surface (bgs) during this investigation.

5. Site Characteristics

The Site is located at 8889 U.S. Highway 17 North, Washington, in Beaufort County, North Carolina. The Site was previously developed with a gasoline station that had been converted into a residence and a wood-framed storage shed/garage. The residence and storage shed have been demolished. NCDOT plans to widen U.S. Highway 17, including a bucket-handle turn lane at the location of this property. Overhead power lines are near the location of the three USTs on the eastern part of the Site. The majority of the surrounding properties are residential, agricultural, or undeveloped land. **Figure 1** shows the Site location, and **Figure 2** shows Site details.

The *Geologic Map of North Carolina*, published in 1985 by the North Carolina Department of Natural Resources and Community Development, shows the Site is located in the Coastal Plain Physiographic Province, and is underlain by the Yorktown formation, which is comprised of fossiliferous clay and other marine sediments. Site topography slopes gently to the northwest toward Gum Swamp.

C. CLOSURE PROCEDURE

NCDOT contracted with SynTerra to close the four USTs by removal. SynTerra contracted with Hazmat Emergency Response and Remediation, Inc. (HERR) to aid in the closure of the USTs. Synterra notified North Carolina 811 in preparation for excavation.

SynTerra mobilized to the Site with HERR on July 28, 2021, to close the USTs by removal. The three gas station USTs were reported to have been abandoned-in-place by filling with concrete. However, an inspection of the tanks indicated that the tanks were only partially filled with concrete with several feet of headspace in each tank and 2 to 5 inches of liquid present. HERR used a vacuum truck to recover as much liquid as possible from the tanks.

Beaufort County Fire Marshall Curtis Avery was on-Site to oversee that the tanks were made inert before removal. Mr. Avery determined the presence of flammable atmosphere with an explosimeter, so he requested that we inert the tanks. HERR placed dry ice in the tanks which was allowed to sublimate until the explosimeter readings fell below the lower explosive limit. After the readings fell below the lower explosive limit, Mr. Avery approved excavation operations.

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HERR used an excavator to remove the concrete slab from above the three gas station USTs, excavate the soil from above the three tanks, and remove the tanks from the ground. The three tanks were relatively intact. While excavating, the northernmost tank was punctured, and additional water that had been trapped between the concrete and the wall of the tank drained out into the excavation. HERR recovered this water using their vacuum truck. HERR used the excavator to open the tanks and used a mini-excavator with a hammer attachment to break and remove the concrete from within. HERR also removed approximately 10 feet of associated piping. After the tanks had been removed, SynTerra observed groundwater flowing into the excavation. The excavation for the gas station USTs measured 20 feet long, 13 feet wide, and 5 feet deep.

After being unable to locate the heating oil UST using probe rod and shovel, HERR began attempting to locate it by exploratory digging with the excavator. When the excavator bucket contacted the tank, the tank collapsed due to its degraded state and the water inside the tank drained into the excavated hole. The metal was severely rusted and perforated. It appeared that groundwater in this area was approximately 1.5 feet bgs at this location, and that the water inside the tank was effectively part of the water table. The excavation for the heating oil tank was approximately 3 feet wide by 4 feet long by 3 feet deep. **Figure 3** shows the UST locations and the extents of excavation. Photographs of the excavation activities are included in **Appendix F**.

HERR loaded the concrete, empty tanks and piping onto dump trucks for disposal at EJE Recycling & Disposal in Greenville, North Carolina. HERR disposed of the 405 gallons of liquid recovered by their vacuum truck at their own facility in Whiteville, North Carolina. Certificate of UST Disposal is included in **Appendix B** and disposal manifests are included in **Appendix C**.

During the 2019 PSA, it was determined that the excavated material was unaffected; therefore, HERR backfilled the excavation with that material after tank removal. HERR performed the backfill in 18-inch lifts, compacting each lift with the excavator bucket. Approximately 15 tons of additional soil were obtained from Pea Creek Mine, LLC of Greenville, North Carolina to complete the backfill.

D. SITE INVESTIGATION

SynTerra collected soil from each wall of the excavations and stored the soil in closed polyethylene bags. After approximately 15 minutes, the headspace of the bags was screened using a photoionization detector (PID). PID readings of the excavation walls

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ranged from 1.2 ppm to 11.4 ppm at the gas station USTs, and 0.0 ppm to 2.0 ppm at the heating oil UST (**Table 2**). Eastern Solutions calibrated the PID before the field activities. SynTerra did not observe staining or petroleum odor in the excavated soil.

The soil consisted of dark brown organic soil from approximately 0-1 feet bgs followed by light brown clayey sandy silt. Groundwater in the excavation for the gas station USTs was encountered at approximately 4 feet bgs and at approximately 1.5 feet in the excavation for the heating oil UST.

SynTerra collected water grab samples from the excavations using a high density polyethylene dipper to be analyzed for:

- Volatile organic chemicals (VOCs) by method SM 6200B
- Semivolatile organic chemicals (SVOCs) by U.S. Environmental Protection Agency (USEPA) Method 625.1
- Massachusetts Department of Environmental Protection (MADEP) extractable petroleum hydrocarbons (EPH), and MADEP volatile petroleum hydrocarbons (VPH), as requested by NCDEQ.

SynTerra collected a sample (GW-1) from the gas station UST excavation at 1:00 p.m. on June 28. SynTerra collected a sample (GW-2) from the heating oil UST excavation at 4:00 p.m. on June 28. Samples were collected in laboratory-provided bottleware and stored on ice. Synterra delivered the samples to Waypoint Analytical at 1:14 p.m. on July 29 under chain-of-custody protocol.

Laboratory analytical results from GW-1 and GW-2 revealed several constituents detected at concentrations greater than method detection limits (MDLs). None of the detected analytes from GW-1 were greater than 02L standards. Of the analytes detected from GW-2, aliphatic C9-C18, aliphatic C9-C12, aromatic C11-C22, and aromatic C9-C10 were greater than 02L standards. No reported concentrations were greater than applicable North Carolina Gross Contamination Levels. A summary of detected analytes is presented on **Table 3**. The completed chain-of-custody is included as **Appendix D** and the laboratory report is included as **Appendix E**.

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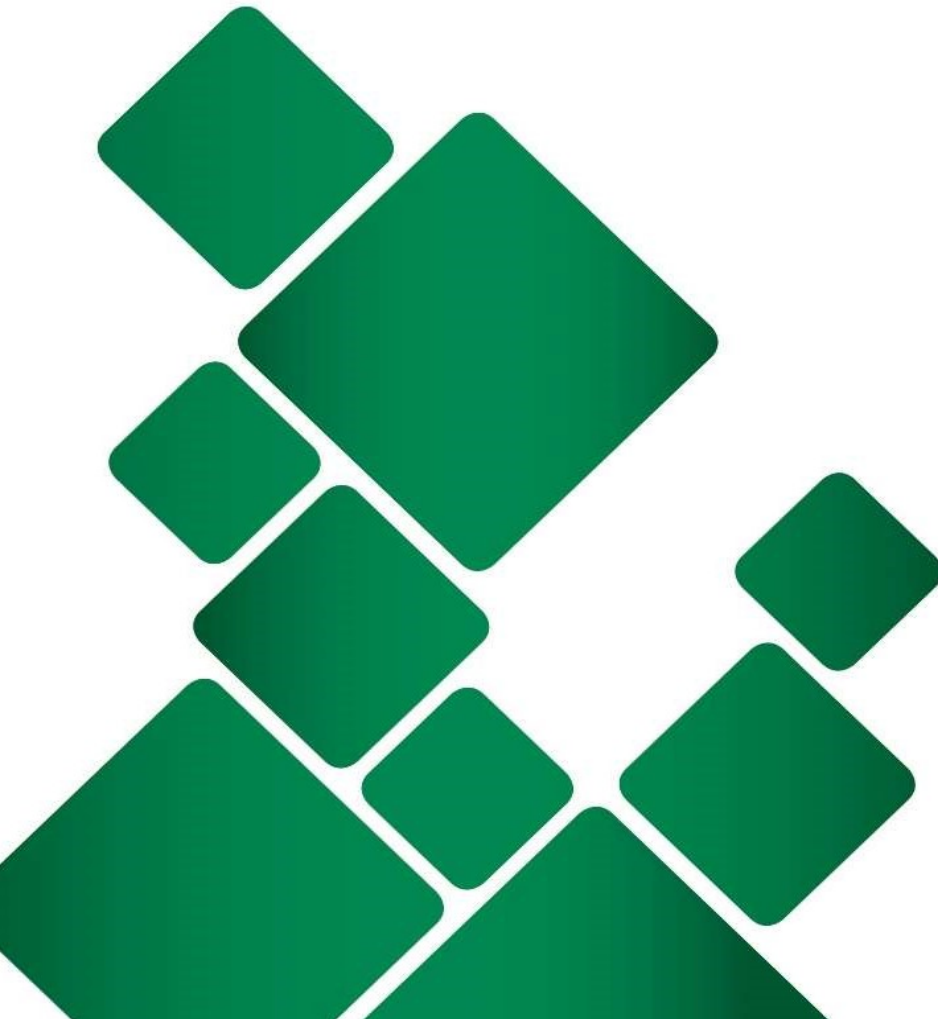
E. CONCLUSIONS AND RECOMMENDATION

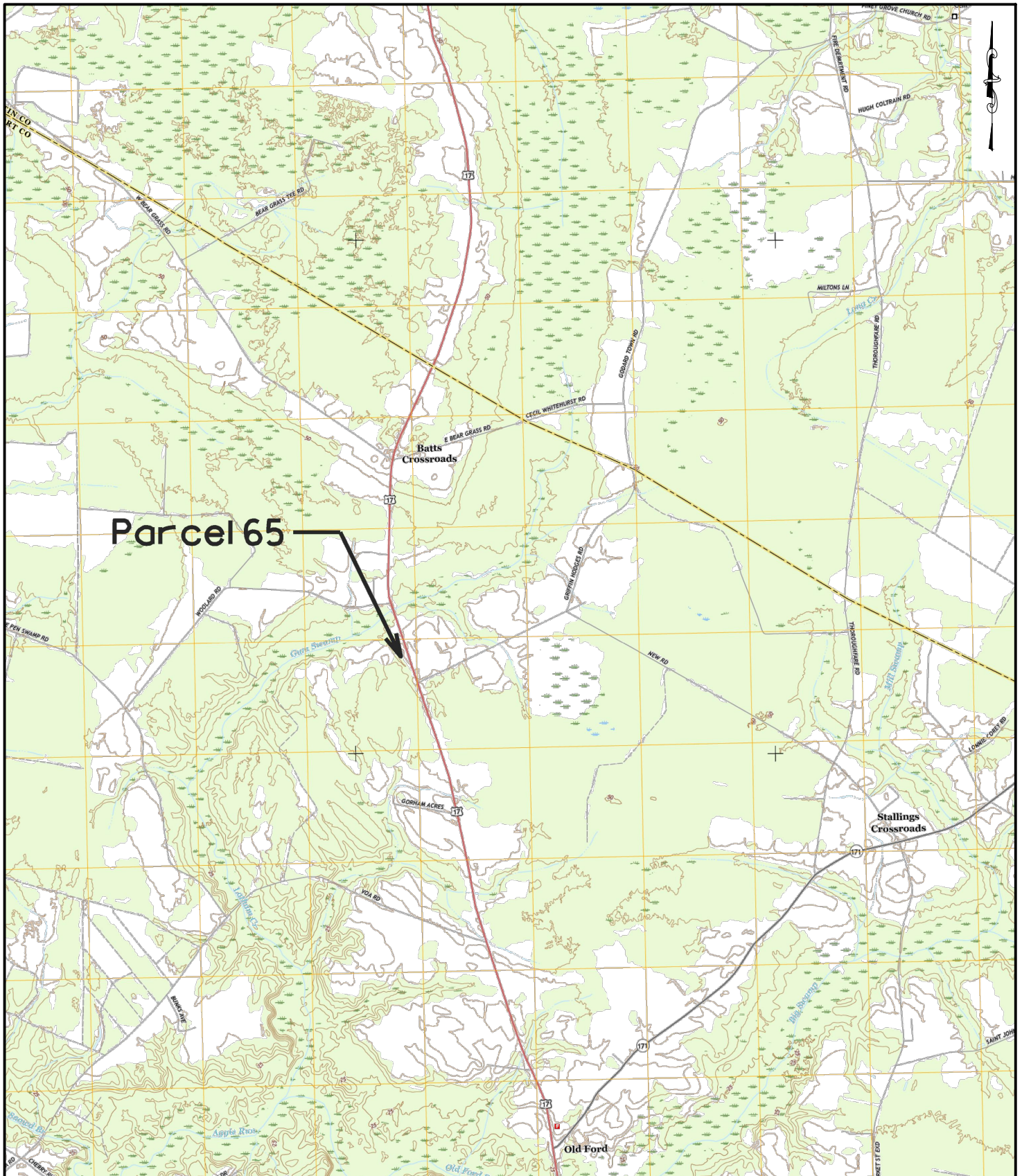
Four USTs were closed, and waste materials from those tanks were transported to appropriate facilities for disposal. PID soil screening performed during those activities and the PSA in 2019, in combination with lab analysis performed as part of the PSA, does not indicate the presence of affected soil due to the USTs at this Site. However, lab analysis of water samples indicate that petroleum constituents are present in groundwater.

The PSA groundwater sample TW-1 collected adjacent to the gas station USTs contained several VOC and MADEP-EPH/VPH analytes that were greater than 02L standards. Groundwater sample GW-2 collected from the heating oil UST during the PSA contains several MADEP-EPH/VPH analytes that are greater than 02L standards.

SynTerra recommends providing this report to the UST section in the Washington Regional Office of NCDEQ.

FIGURES





Parcel 65

Batts Crossroads

Stallings Crossroads

Old Ford



148 RIVER STREET, SUITE 220
 GREENVILLE, SOUTH CAROLINA
 PHONE 864-421-9999
 www.synterracorp.com



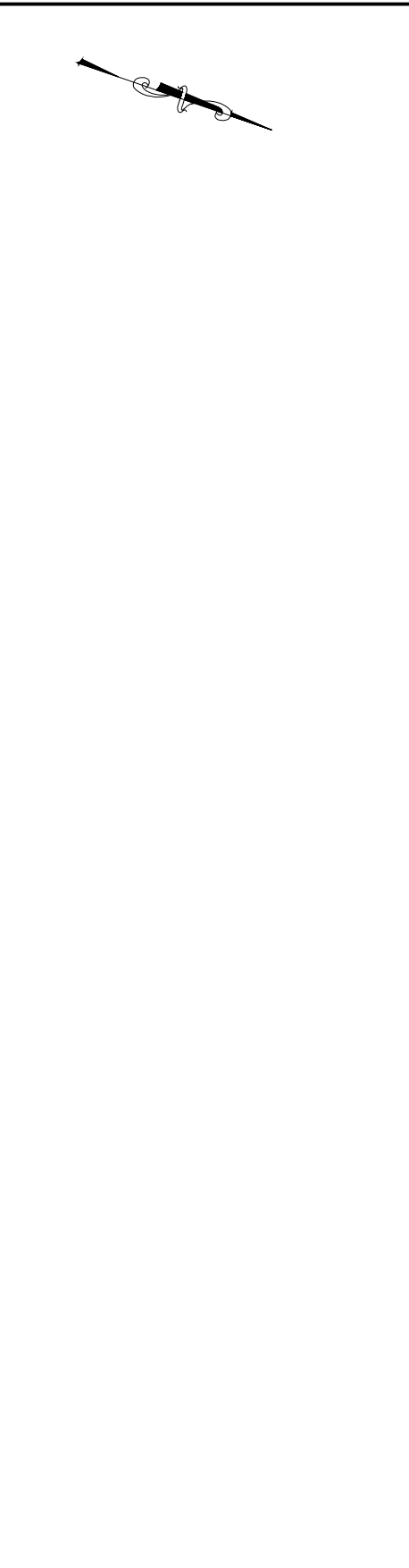
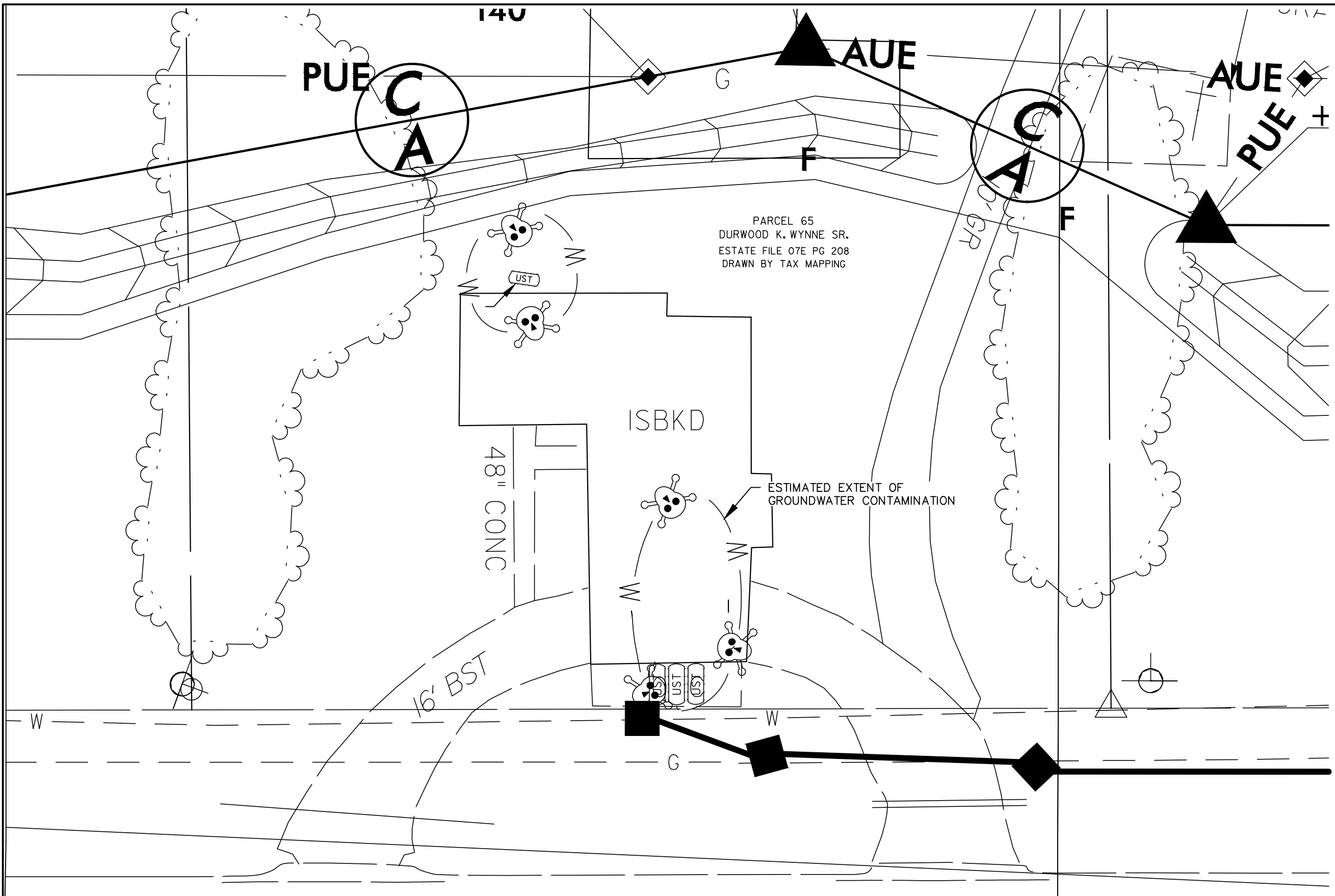
BEAUFORT COUNTY

FIGURE 1
SITE TOPOGRAPHIC MAP
NCDOT PARCEL 65
8889 US 17 N, WASHINGTON
BEAUFORT COUNTY, NORTH CAROLINA
OLD FORD NC QUADRANGLE

DRAWN BY: C. NEWELL
 PROJECT MANAGER: H. CARTER
 LAYOUT: FIGURE 1

DATE: 08/16/2021
 CONTOUR INTERVAL: 5 FEET
 MAP DATE: UNKNOWN





PARCEL 65
 DURWOOD K. WYNNE SR.
 ESTATE FILE 07E PG 208
 DRAWN BY TAX MAPPING

ESTIMATED EXTENT OF
 GROUNDWATER CONTAMINATION

48" CONC

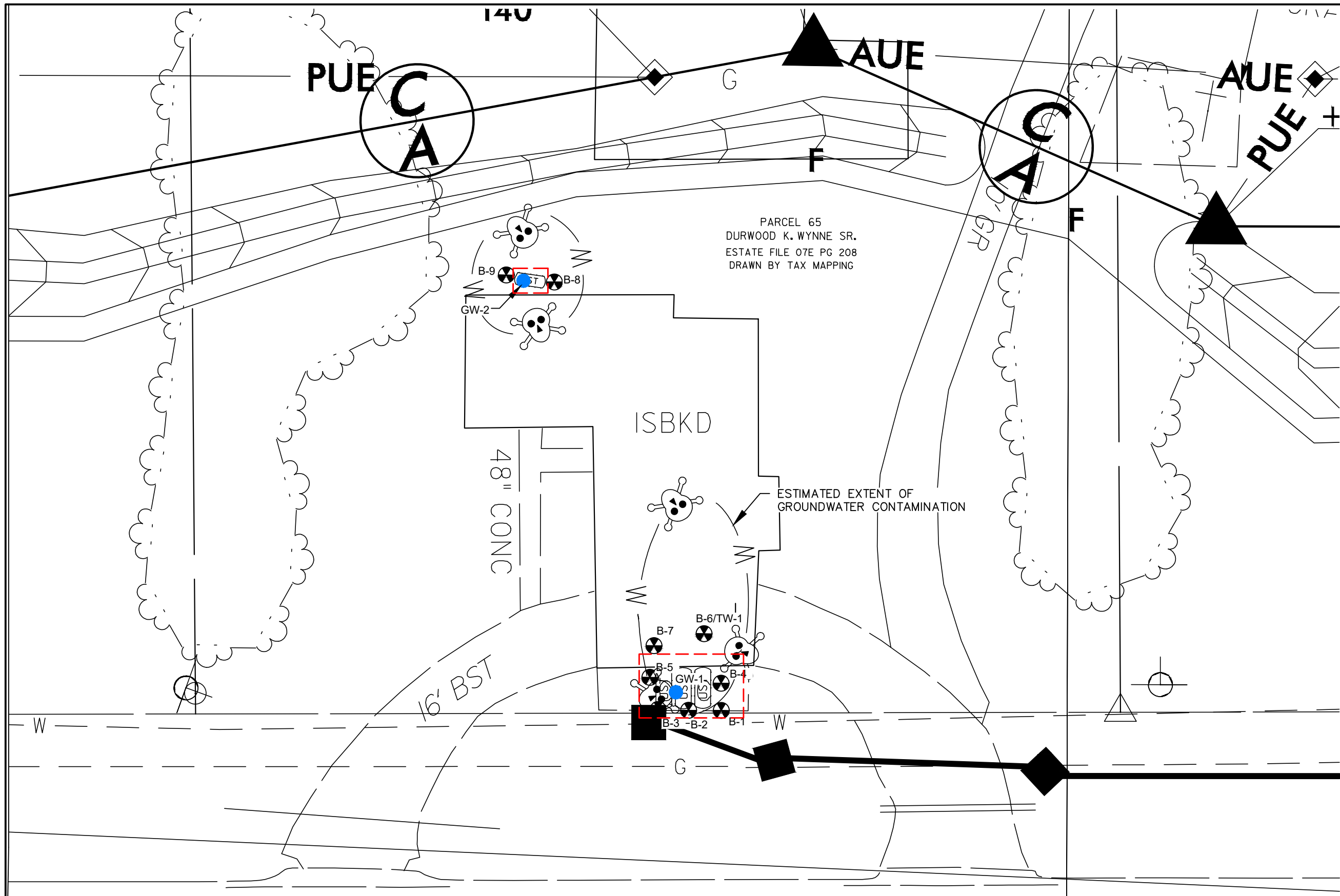
16' BST

HWY 17 28' BST



GRAPHIC SCALE
 10 0 10 20
 IN FEET
 148 RIVER STREET, SUITE 220
 GREENVILLE, SOUTH CAROLINA 29601
 PHONE 864-421-9999
 www.synterracorp.com
 DRAWN BY: C. NEWELL DATE: 08/17/2021
 PROJECT MANAGER: H. CARTER
 LAYOUT: FIGURE 2
 08/17/2021 4:56 PM P:_Cary\NCDOT-Geoen\00.3920.00 US 17 Parcel 65 UST Pull\Drawings\00392000-Figures.dwg

FIGURE 2
SITE MAP
NCDOT PARCEL 65
8889 US 17 N, WASHINGTON
BEAUFORT COUNTY, NORTH CAROLINA



LEGEND

- B-9 SAMPLES COLLECTED FROM BORINGS DURING PREVIOUS INVESTIGATION
- GW-1 WATER SAMPLE COLLECTED FROM EXCAVATION PIT
- AREA OF EXCAVATION



GRAPHIC SCALE
10 0 10 20
IN FEET

148 RIVER STREET, SUITE 220
GREENVILLE, SOUTH CAROLINA 29601
PHONE 864-421-9999
www.synterracorp.com

DRAWN BY: C. NEWELL DATE: 08/17/2021
PROJECT MANAGER: H. CARTER
LAYOUT: FIGURE 3

08/17/2021 4:55 PM P:_Cary\NCDOT-Geoenv\00.3920.00 US 17 Parcel 65 UST Pull\Dwgs\00392000-Figures.dwg

FIGURE 3
SAMPLE LOCATION MAP
NCDOT PARCEL 65
8889 US 17 N, WASHINGTON
BEAUFORT COUNTY, NORTH CAROLINA

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Computed Property Corner	⊗
Property Monument	⊠
Parcel/Sequence Number	Ⓜ
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	-o-o-o-
Proposed Chain Link Fence	-□-□-□-
Proposed Barbed Wire Fence	-◇-◇-◇-
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Existing Historic Property Boundary	-----
Known Contamination Area: Soil	-S-S-S-
Potential Contamination Area: Soil	-S-S-S-
Known Contamination Area: Water	-W-W-W-
Potential Contamination Area: Water	-W-W-W-
Contaminated Site: Known or Potential	⊗

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	⊙
Sign	⊙
Well	⊙
Small Mine	⊗
Foundation	⊠
Area Outline	⊠
Cemetery	⊠
Building	⊠
School	⊠
Church	⊠
Dam	⊠

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	-----
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	⬠
Primary Horiz and Vert Control Point	⬠
Exist Permanent Easment Pin and Cap	⬠
New Permanent Easment Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	⬠
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	⊕
Single Shrub	⊕

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	⊕
Proposed Power Pole	⊕
Existing Joint Use Pole	⊕
Proposed Joint Use Pole	⊕
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	-----
H-Frame Pole	⊕
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	⊕
Proposed Telephone Pole	⊕
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	⊕
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	⊕
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

Utility Pole	⊕
Utility Pole with Base	⊕
Utility Located Object	⊕
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

	NO SCALE	FIGURE 4 LEGEND SHEET NCDOT PARCEL 65 8889 US 17 N, WASHINGTON BEAUFORT COUNTY, NORTH CAROLINA
	148 RIVER STREET, SUITE 220 GREENVILLE, SOUTH CAROLINA 29601 PHONE 864-421-9999 www.synterracorp.com DRAWN BY: C. NEWELL DATE: 08/17/2021 PROJECT MANAGER: H. CARTER LAYOUT: FIGURE 4	
08/17/2021 4:57 PM P:_Cary\NCDOT-Geovis\003920.00 US 17 Parcel 65 UST Pull\Drawings\00392000-Figures.dwg		

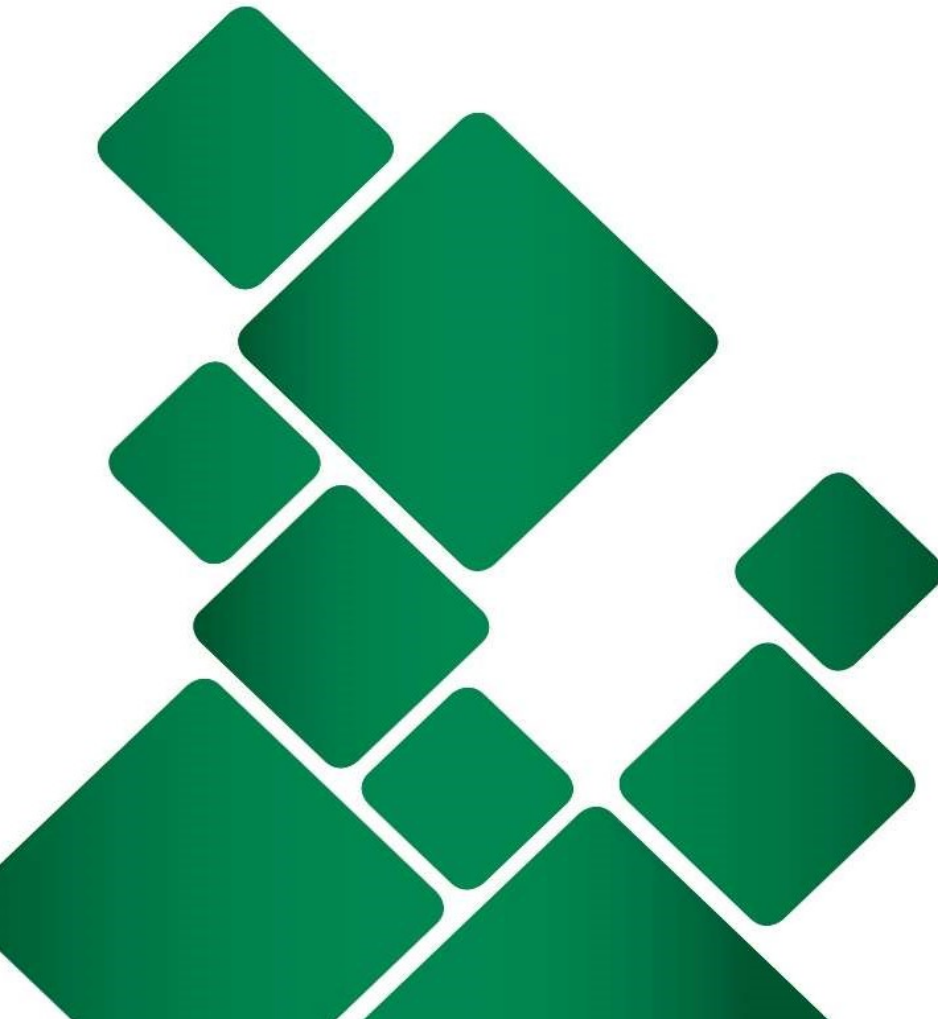
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R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

TABLES



Science & Engineering Consultants

TABLE 1
UST SYSTEM INFORMATION
NCDOT U.S. 17 NORTH PARCEL 65
BEAUFORT COUNTY, NORTH CAROLINA

UST ID Number	Current/Last Contents	Capacity (gallons)	Tank Dimensions (feet)	Date Installed	Date Closed	Construction Details	Associated Piping and Pumps	Status of UST	Was Release Associated with the UST System
NA	Petroleum	575	Length: 8' Diameter: 3.5'	Unknown	7/28/2021	Single-walled Steel	Steel Product Lines	Permanently closed by removal	Yes
NA	Petroleum	575	Length: 8' Diameter: 3.5'	Unknown	7/28/2021	Single-walled Steel	Steel Product Lines	Permanently closed by removal	Yes
NA	Petroleum	575	Length: 8' Diameter: 3.5'	Unknown	7/28/2021	Single-walled Steel	Steel Product Lines	Permanently closed by removal	Yes
NA	Heating Oil	200	Length: 4' Diameter: 3'	Unknown	7/28/2021	Single-walled Steel	Steel Product Lines	Permanently closed by removal	Yes

Created by: IAS Checked by: JHC

TABLE 2
SUMMARY OF SIDEWALL SCREENING LEVELS IN SOIL
NCDOT U.S. 17 NORTH PARCEL 65
BEAUFORT COUNTY, NORTH CAROLINA

Soil Location	Concentration (ppm)
<i>Petroleum UST Excavation Pit</i>	
North wall	3.4
South wall	1.2
East wall	11.4
West wall	4.1
<i>Heating Oil UST Excavation Pit</i>	
North wall	0.0
South wall	0.6
East wall	2.0
West wall	0.9

Created by: JAS Checked by: JHC

Notes:

SynTerra screened soils for volatile organic compounds (VOCs) using a photoionization detector (PID)
 ppm - parts per million

TABLE 3
SUMMARY OF EXCAVATION PIT WATER ANALYTICAL RESULTS
NCDOT U.S. 17 NORTH PARCEL 65
BEAUFORT COUNTY, NORTH CAROLINA

Sample Identification			GW-1		GW-2	
Analyte	02L Standard	Gross Contamination Levels for Groundwater	Value	Q	Value	Q
Volatile Organic Compounds (SM 6200B)						
Acetone	6,000	6,000,000	2.87	J	4.80	J
n-Butylbenzene	70	5,900	<0.180		1.01	
sec-Butylbenzene	70	8,800	<0.200		2.33	
Ethylbenzene	600	80,000	0.234	J	0.436	J
Isopropylbenzene	70	30,500	<0.180		1.10	
4-Isopropyl toluene	25	11,700	<0.089		1.59	
Naphthalene	6	6,000	<0.470		4.27	
n-Propylbenzene	70	26,100	<0.190		1.73	
Toluene	600	260,000	0.346	J	<0.220	
1,2,4-Trimethylbenzene	400	28,500	1.05		6.30	
1,3,5-Trimethylbenzene	400	24,100	0.340	J	2.38	
o-Xylene	NE	NE	0.468	J	<0.210	
m&p-Xylene	NE	NE	0.830	J	<0.420	
Total Xylene	500	50,000	1.30	J	<0.21	
MADEP Methods (MADEP EPH & VPH)						
Aliphatic C9-C18	400 ¹	NE	<28.2		151	J
Aliphatic C9-C12		NE	27.5	J	267	
Aromatic C11-C22	200 ²	NE	<61.2		197	J
Aromatic C9-C10		NE	<4.02		117	

Prepared by: JHC Checked by: BNM

Notes:

Results in µg/L.

Samples collected on 2/24/2021.

Bolded result is greater than method detection limit.

Shaded result is greater than 02L standard

02L Standard - North Carolina groundwater quality standard (15A NCAC 02L .0202).

¹ - 02L standard is for sum of aliphatic C9-C12 and C9-C18 fractions

² - 02L standard is for sum of aromatic C11-C22 and C9-C10 fractions

< - Analyte not detected at a concentration greater than the method detection limit.

J - Estimated value

EPH - Extractable petroleum hydrocarbons

MADEP - Massachusetts Department of Environmental Protection

NA - Not analyzed

NE - Standard not established.

VPH - Volatile petroleum hydrocarbons

UST Closure Report

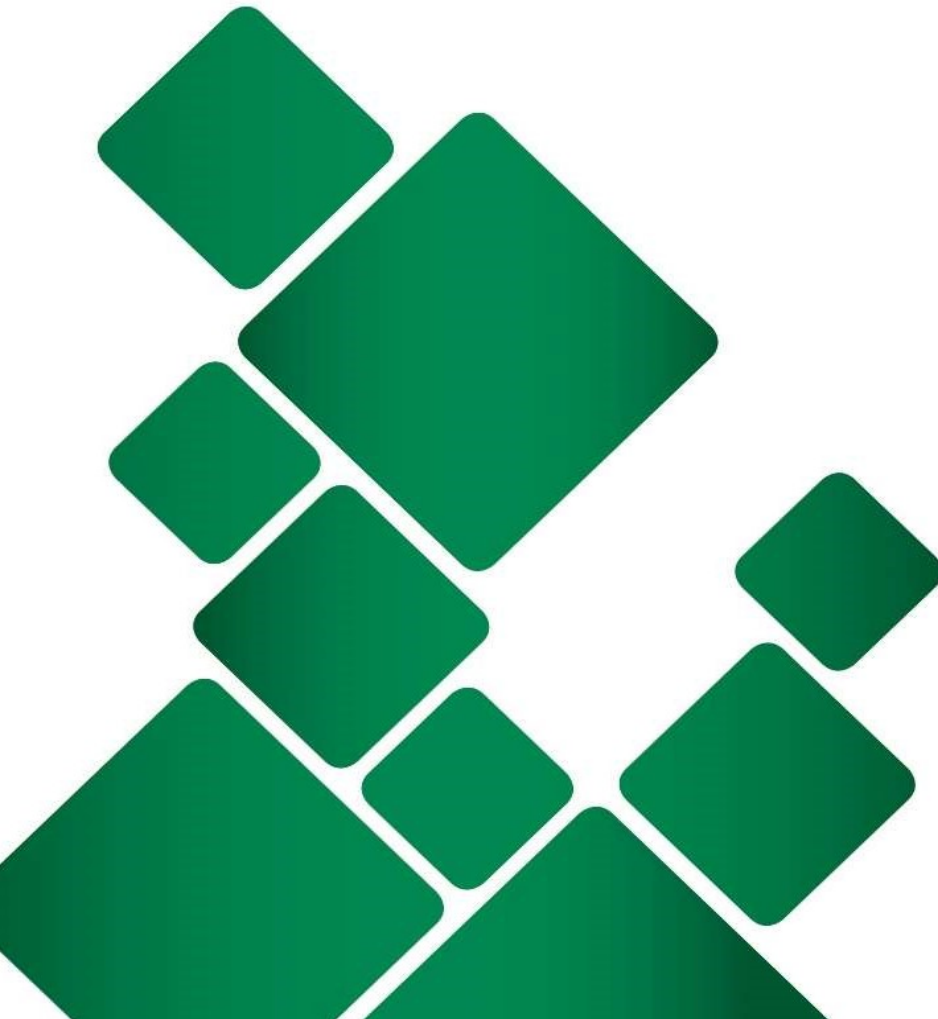
R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX A

FORM UST-2B



Science & Engineering Consultants

UST-2B

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



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

INSTRUCTIONS (READ THIS FIRST)

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

I. OWNERSHIP OF TANKS				II. LOCATION OF TANKS			
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Douglas Kirby Wynne, Sr.				Facility Name or Company Former Wynne Gulf			
Street Address 8889 U.S. 17 North				Facility ID # (If known)			
City Washington		County Beaufort		Street Address 8889 U.S. 17 North			
State NC		Zip Code 27889		City Washington		County Beaufort	
Phone Number unknown				Zip Code 27889		Phone Number unknown	

III. CONTACT PERSONNEL

Contact for Facility:		Job Title:	Phone #:
Closure Contractor Name:	Closure Contractor Company: HERR, inc	Address: Whiteville, NC	Phone # 910-640-2607
Primary Consultant Name:	Primary Consultant Company: SynTerra Corp	Address: 511 Kiesler Dr, Cary, NC	Phone # 919-858-9898

IV. UST INFORMATION FOR UN-REGISTERED UST SYSTEMS REGISTERED USTs use Form UST-2A.							V. EXCAVATION CONDITION					
Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
N/A	575	gasoline	unkown	7/28/2021	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
N/A	575	gasoline	unknowr	7/28/2021	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
N/A	575	gasoline	unknowi	7/28/2021	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
N/A	200	heat. oil	unknowi	7/28/2021	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative

Signature _____ Date Signed _____

UST Closure Report

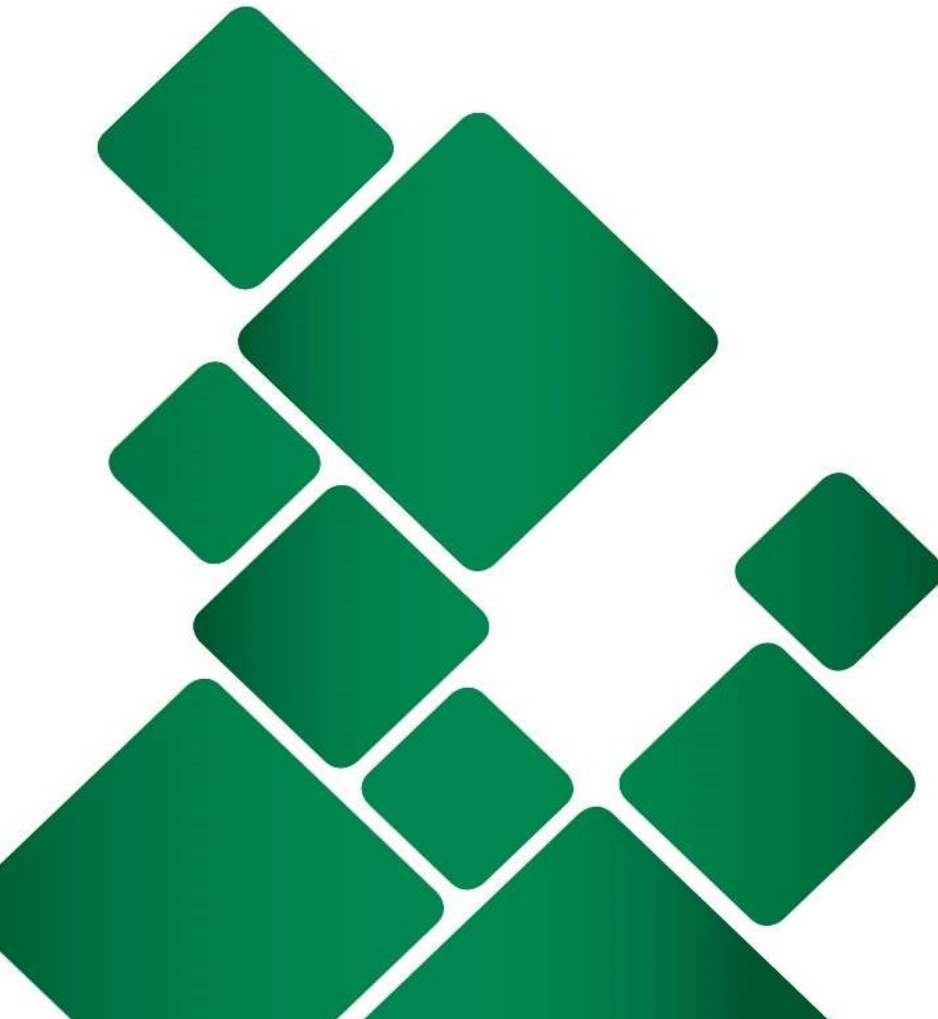
R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX B

CERTIFICATE OF UST DISPOSAL



Science & Engineering Consultants



TANK / VESSEL DISPOSAL MANIFEST



HAZMAT EMERGENCY RESPONSE & REMEDIATION, INC.

1287

GENERATOR INFORMATION

Generator: NC DOT

Site Address: 8889 US Hwy 17
Washington, NC

Signature: _____ Date: _____

TANK / VESSEL INFORMATION

Tank Number	Tank Size	Last Tank Contents	Condition (Comments)
#1	1,000	Concrete	
#2	1,000	Concrete	
#3	1,000	Concrete	
#4	550	#2 Fuel Oil	

TANK TRANSPORTER INFORMATION

I acknowledge receipt of the above-listed tanks / vessels on this date:

Dwayne Clark Dwayne Clark 7-28-21
 Transporter 1 Printed Name: Transporter 1 Signature: Date:

Transporter 2 Printed Name: Transporter 2 Signature: Date:

TANK DISPOSAL / RECYCLING INFORMATION

The tanks / vessels listed above have undergone disposal or recycling:

Tank Disposal / Recycling Method: EJE Recycling & Disposal, Inc
802 Recycling Lane Greenville, NC

Michael Stoneman Michael Stone 7-29-21
 Printed Name: Signature: Date:

UST Closure Report

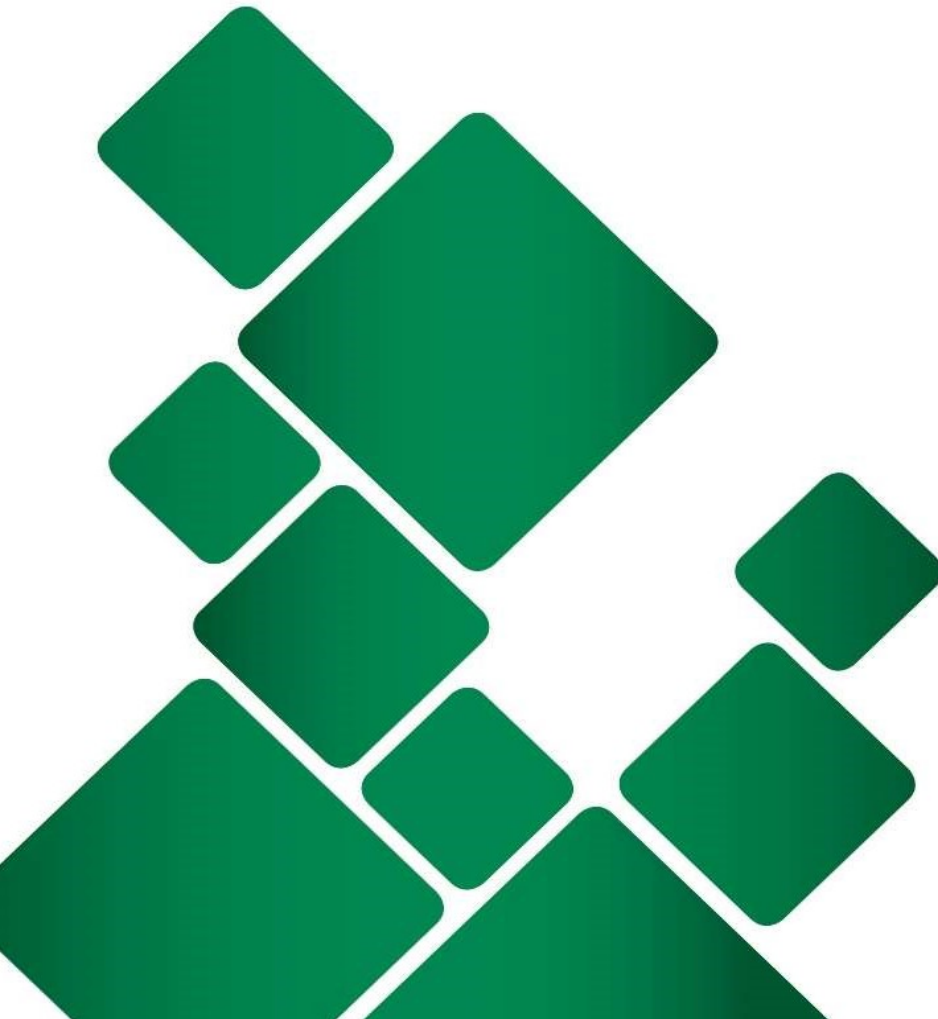
R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX C

CONCRETE AND WATER DISPOSAL MANIFESTS



Science & Engineering Consultants

EJE RECYCLING & DISPOSAL INC.
802 RECYCLING LN, GREENVILLE, NC 27834
2527528274

Ticket #: 001-0000007493

IN Bound PITT COUNTY 100%

7/28/2021
In : 11:43:30 /Out : 11:54:32
Scale # : 1

Customer : **CASH CUSTOMER**
Vehicle : **1**

Gross Wt:	26.16	Tare Wt:	13.30	Net Wt:	12.86 TON
Gross Wt:	52,320.00	Tare Wt:	26,600.00	Net Wt:	25,720.00 LBS

PITT COUNTY

CONCRETE

12.86 TON

Signature: _____
Weigh Master: MW #44498
HERR, INC

Now Selling Crushed Rock.

EJE RECYCLING & DISPOSAL INC.
802 RECYCLING LN, GREENVILLE, NC 27834
2527528274

Ticket #: 001-0000007497

7/28/2021
In : 12:50:13 /Out : 13:05:16
Scale # : 1

IN Bound PITT COUNTY 100%

Customer : **CASH CUSTOMER**
Vehicle : **1**

Gross Wt:	30.99	Tare Wt:	13.38	Net Wt:	17.61 TON
Gross Wt:	61,980.00	Tare Wt:	26,760.00	Net Wt:	35,220.00 LBS

PITT COUNTY
CONCRETE 17.61 TON

Signature: _____
Weigh Master: MW #44498
HERR, INC

Now Selling Crushed Rock.

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NC DOT 8889 US 17 Washington, NC</i>					
4. Generator's Phone ()					
5. Transporter 1 Company Name HERR, INC.		6. US EPA ID Number <i>NCR000139816</i>		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 910-640-2607	
9. Designated Facility Name and Site Address HERR, INC. 303 S. MAULTSBY ST. WHITEVILLE, NC 28472		10. US EPA ID Number NCR-000139816		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 910-640-2607	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. NON-REG. PETROLEUM CONTACT WATER			No. Type		
			<i>1</i> <i>TT</i>	<i>405</i>	GAL.
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above <i>(HERR JOB # R210746L)</i>			H. Handling Codes for Wastes Listed Above <i>(P)</i>		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>On behalf of DOT Harrison Carter</i>				Signature <i>[Signature]</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date Month Day Year <i>7 28 21</i>	
Printed/Typed Name <i>Brody Williams</i>				Signature <i>[Signature]</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date Month Day Year <i>7 28 21</i>	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <i>Scott Strickland</i>				Signature <i>[Signature]</i>	
				Date Month Day Year <i>7 28 21</i>	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER FACILITY

UST Closure Report

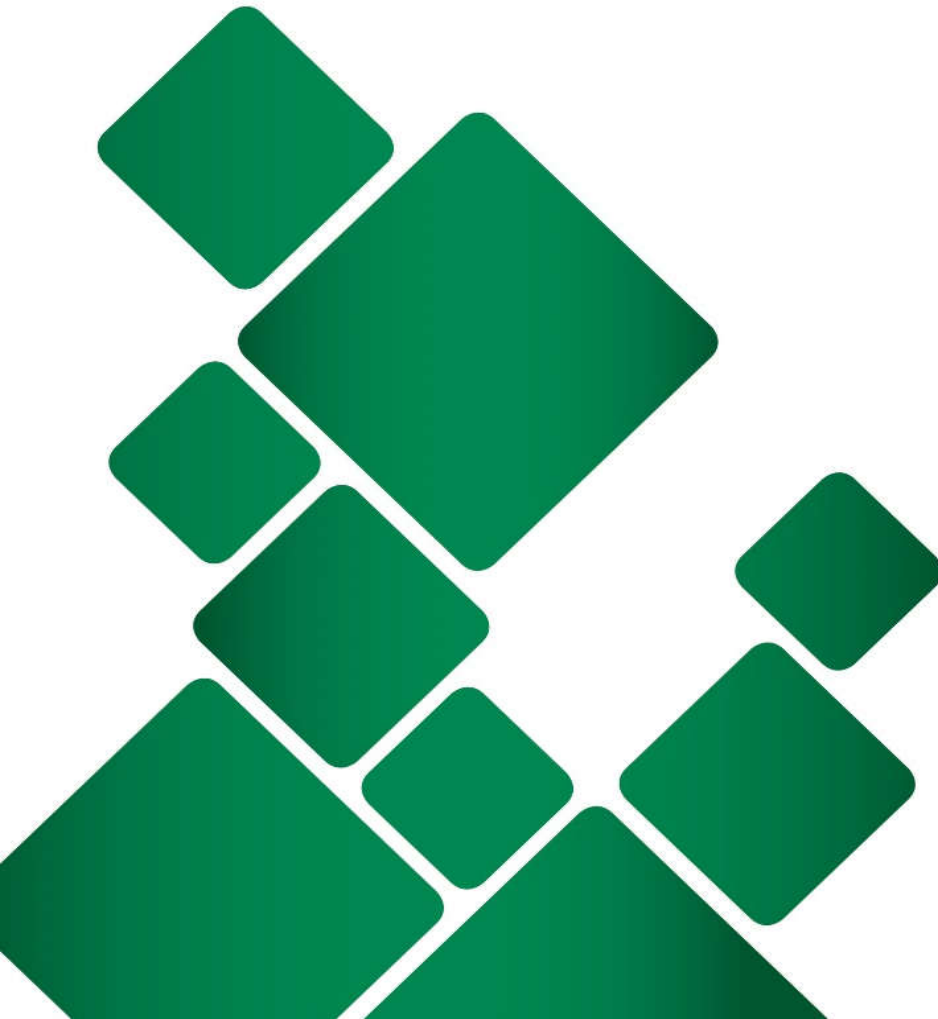
R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX D

CHAIN-OF-CUSTODY



Science & Engineering Consultants

UST Closure Report

R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX E

LABORATORY ANALYTICAL REPORT



Science & Engineering Consultants

8/10/2021

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC, 2758

Ref: Analytical Testing
Lab Report Number: 21-211-0017
Client Project Description: Parcel 65

Dear Harrison Carter:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 7/30/2021 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Angela D Overcash
Senior Project Manager



449 Springbrook Rd, Charlotte, NC 28217
Main 704.529.6364
www.waypointanalytical.com

Certification Summary

Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (C), Charlotte, NC

State	Program	Lab ID	Expiration Date
North Carolina	State Program	37735	07/31/2022
North Carolina	State Program	402	12/31/2021
South Carolina	State Program	99012	07/31/2021
South Carolina	State Program	99012	12/31/2021

Sample Summary Table

Report Number: 21-211-0017

Client Project Description: Parcel 65

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
92706	GW-1	Aqueous	07/28/2021 13:00	07/30/2021
92707	GW-2	Aqueous	07/28/2021 16:00	07/30/2021

Summary of Detected Analytes

Project: Parcel 65
Report Number: 21-211-0017

Client Sample ID	Lab Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
GW-1	V 92706					
6200B	Acetone	2.87	µg/L	1.80	08/03/2021 15:22	J
6200B	Ethylbenzene	0.234	µg/L	0.170	08/03/2021 15:22	J
6200B	Toluene	0.346	µg/L	0.220	08/03/2021 15:22	J
6200B	1,2,4-Trimethylbenzene	1.05	µg/L	0.190	08/03/2021 15:22	
6200B	1,3,5-Trimethylbenzene	0.340	µg/L	0.180	08/03/2021 15:22	J
6200B	o-Xylene	0.468	µg/L	0.210	08/03/2021 15:22	J
6200B	m,p-Xylene	0.830	µg/L	0.420	08/03/2021 15:22	J
6200B	Xylene (Total)	1.30	µg/L	0.210	08/03/2021 15:22	J
MADEP-VPH	Aliphatic C9-C12	27.5	µg/L	25.8	07/30/2021 17:03	J
GW-2	V 92707					
6200B	Acetone	4.80	µg/L	1.80	08/03/2021 17:00	J
6200B	n-Butylbenzene	1.01	µg/L	0.180	08/03/2021 17:00	
6200B	sec-Butyl benzene	2.33	µg/L	0.200	08/03/2021 17:00	
6200B	Ethylbenzene	0.436	µg/L	0.170	08/03/2021 17:00	J
6200B	Isopropylbenzene	1.10	µg/L	0.180	08/03/2021 17:00	
6200B	4-Isopropyl toluene	1.59	µg/L	0.089	08/03/2021 17:00	
6200B	Naphthalene	4.27	µg/L	0.470	08/03/2021 17:00	
6200B	n-Propylbenzene	1.73	µg/L	0.190	08/03/2021 17:00	
6200B	1,2,4-Trimethylbenzene	6.30	µg/L	0.190	08/03/2021 17:00	
6200B	1,3,5-Trimethylbenzene	2.38	µg/L	0.180	08/03/2021 17:00	
MADEP-EPH	Aliphatic C9-C18	151	µg/L	28.2	08/09/2021 22:06	J
MADEP-EPH	Aromatic C11-C22	197	µg/L	61.2	08/09/2021 22:06	J
MADEP-VPH	Aliphatic C9-C12	267	µg/L	25.8	07/30/2021 17:32	
MADEP-VPH	Aromatic C9-C10	117	µg/L	4.02	07/30/2021 17:32	

Client: Synterra Corporation - Cary
Project: Parcel 65
Lab Report Number: 21-211-0017
Date: 8/10/2021

CASE NARRATIVE

625.1 - Base/Neutrals and Acids by GC/MS Method 625.1

Sample 92707 (GW-2)

QC Batch No: V7251/V7150

Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Analyte: Benzoic Acid

QC Batch No: V7251/V7150

Analyte was flagged for 0% recovery in the LCS due to the result being below the MQL. The actual result was 16 ug/L which calculates to a recovery of 32% which is within the acceptable recovery range.

Analyte: Hexachlorobutadiene

QC Batch No: V7251/V7150

Analyte was flagged for 0% recovery in the LCS due to the result being below the MQL. The actual result was 13.87 ug/L which calculates to a recovery of 27.7% which is within the acceptable recovery range.

Analyte: Hexachlorocyclopentadiene

QC Batch No: V7251/V7150

Analyte was flagged for 0% recovery in the LCS due to the result being below the MQL. The actual result was 12.3 ug/L which calculates to a recovery of 24.6% which is below the acceptable recovery range.

Analyte: Pentachlorophenol

QC Batch No: V7251/V7150

Analyte was flagged for 0% recovery in the LCS due to the result being below the MQL. The actual result was 42.76 ug/L which calculates to a recovery of 85.5% which is within the acceptable recovery range.

Massachusetts EPH Method MADEP-EPH

Sample 92707 (GW-2)

Analyte: Chlorooctadecane

QC Batch No: V7419/V7234

Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Analyte: o-Terphenyl

QC Batch No: V7419/V7234

Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	2.87 J	µg/L	1.80	10.0	1	08/03/21 15:22	JLB	V7233
Benzene	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
Bromobenzene	<0.210	µg/L	0.210	0.500	1	08/03/21 15:22	JLB	V7233
Bromochloromethane	<0.420	µg/L	0.420	1.00	1	08/03/21 15:22	JLB	V7233
Bromodichloromethane	<0.160	µg/L	0.160	0.500	1	08/03/21 15:22	JLB	V7233
Bromoform	<1.50	µg/L	1.50	5.00	1	08/03/21 15:22	JLB	V7233
Bromomethane	<0.280	µg/L	0.280	1.00	1	08/03/21 15:22	JLB	V7233
n-Butylbenzene	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
sec-Butyl benzene	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
tert-Butyl benzene	<0.920	µg/L	0.920	2.00	1	08/03/21 15:22	JLB	V7233
Carbon Tetrachloride	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
Chlorobenzene	<0.190	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
Chlorodibromomethane	<0.190	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
Chloroethane	<0.430	µg/L	0.430	1.00	1	08/03/21 15:22	JLB	V7233
Chloroform	<0.220	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
Chloromethane	<0.220	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
2-Chlorotoluene	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
4-Chlorotoluene	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
Di-Isopropyl Ether (DIPE)	<0.500	µg/L	0.500	0.500	1	08/03/21 15:22	JLB	V7233
1,2-Dibromo-3-Chloropropane	<1.10	µg/L	1.10	2.00	1	08/03/21 15:22	JLB	V7233
1,2-Dibromoethane	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
Dibromomethane	<0.230	µg/L	0.230	0.500	1	08/03/21 15:22	JLB	V7233

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	MQL	Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2-Dichlorobenzene	<0.220	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
1,3-Dichlorobenzene	<0.190	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
1,4-Dichlorobenzene	<0.210	µg/L	0.210	0.500	1	08/03/21 15:22	JLB	V7233
Dichlorodifluoromethane	<1.20	µg/L	1.20	5.00	1	08/03/21 15:22	JLB	V7233
1,1-Dichloroethane	<0.240	µg/L	0.240	0.500	1	08/03/21 15:22	JLB	V7233
1,2-Dichloroethane	<0.150	µg/L	0.150	0.500	1	08/03/21 15:22	JLB	V7233
1,1-Dichloroethene	<0.150	µg/L	0.150	0.500	1	08/03/21 15:22	JLB	V7233
cis-1,2-Dichloroethene	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
trans-1,2-Dichloroethene	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
1,2-Dichloropropane	<0.190	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
1,3-Dichloropropane	<0.130	µg/L	0.130	0.500	1	08/03/21 15:22	JLB	V7233
2,2-Dichloropropane	<0.210	µg/L	0.210	2.00	1	08/03/21 15:22	JLB	V7233
1,1-Dichloropropene	<0.200	µg/L	0.200	0.500	1	08/03/21 15:22	JLB	V7233
cis-1,3-Dichloropropene	<0.210	µg/L	0.210	0.500	1	08/03/21 15:22	JLB	V7233
trans-1,3-Dichloropropene	<0.150	µg/L	0.150	0.500	1	08/03/21 15:22	JLB	V7233
Ethanol	<42.0	µg/L	42.0	200	1	08/03/21 15:22	JLB	V7233
Ethylbenzene	0.234 J	µg/L	0.170	0.500	1	08/03/21 15:22	JLB	V7233
Hexachlorobutadiene	<0.350	µg/L	0.350	3.00	1	08/03/21 15:22	JLB	V7233
2-Hexanone	<0.380	µg/L	0.380	1.00	1	08/03/21 15:22	JLB	V7233
Isopropylbenzene	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
4-Isopropyl toluene	<0.089	µg/L	0.089	0.500	1	08/03/21 15:22	JLB	V7233
Methyl Ethyl Ketone (MEK)	<0.710	µg/L	0.710	5.00	1	08/03/21 15:22	JLB	V7233

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Methyl tert-butyl ether (MTBE)	<0.140	µg/L	0.140	1.00	1	08/03/21 15:22	JLB	V7233
4-Methyl-2-Pentanone	<0.078	µg/L	0.078	1.00	1	08/03/21 15:22	JLB	V7233
Methylene Chloride	<0.330	µg/L	0.330	2.00	1	08/03/21 15:22	JLB	V7233
Naphthalene	<0.470	µg/L	0.470	1.00	1	08/03/21 15:22	JLB	V7233
n-Propylbenzene	<0.190	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
Styrene	<0.220	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
1,1,1,2-Tetrachloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 15:22	JLB	V7233
1,1,2,2-Tetrachloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 15:22	JLB	V7233
Tetrachloroethene	<0.220	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
Toluene	0.346 J	µg/L	0.220	0.500	1	08/03/21 15:22	JLB	V7233
1,2,3-Trichlorobenzene	<0.380	µg/L	0.380	0.500	1	08/03/21 15:22	JLB	V7233
1,2,4-Trichlorobenzene	<0.310	µg/L	0.310	0.500	1	08/03/21 15:22	JLB	V7233
1,1,1-Trichloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 15:22	JLB	V7233
1,1,2-Trichloroethane	<0.096	µg/L	0.096	0.500	1	08/03/21 15:22	JLB	V7233
Trichloroethene	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
Trichlorofluoromethane	<0.180	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
1,2,3-Trichloropropane	<0.270	µg/L	0.270	0.500	1	08/03/21 15:22	JLB	V7233
1,2,4-Trimethylbenzene	1.05	µg/L	0.190	0.500	1	08/03/21 15:22	JLB	V7233
1,3,5-Trimethylbenzene	0.340 J	µg/L	0.180	0.500	1	08/03/21 15:22	JLB	V7233
Vinyl Acetate	<1.00	µg/L	1.00	5.00	1	08/03/21 15:22	JLB	V7233
Vinyl Chloride	<0.170	µg/L	0.170	0.500	1	08/03/21 15:22	JLB	V7233
o-Xylene	0.468 J	µg/L	0.210	0.500	1	08/03/21 15:22	JLB	V7233

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

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Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	ML	DF	Date / Time Analyzed	By	Analytical Batch
m,p-Xylene	0.830 J	µg/L	0.420	1.00	1	08/03/21 15:22	JLB	V7233
Xylene (Total)	1.30 J	µg/L	0.210	0.500	1	08/03/21 15:22		V7233
Surrogate: 4-Bromofluorobenzene	98.6		Limits: 70-130%		1	08/03/21 15:22	JLB	V7233
Surrogate: Dibromofluoromethane	97.4		Limits: 70-130%		1	08/03/21 15:22	JLB	V7233
Surrogate: 1,2-Dichloroethane - d4	89.2		Limits: 70-130%		1	08/03/21 15:22	JLB	V7233
Surrogate: Toluene-d8	91.8		Limits: 70-130%		1	08/03/21 15:22	JLB	V7233

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00
Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	ML	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<7.40	µg/L	7.40	10.4	1	08/02/21 18:45	JMV	V7251
Acenaphthylene	<7.22	µg/L	7.22	20.8	1	08/02/21 18:45	JMV	V7251
Anthracene	<6.83	µg/L	6.83	10.4	1	08/02/21 18:45	JMV	V7251
Benzydine	<5.28	µg/L	5.28	10.4	1	08/02/21 18:45	JMV	V7251
Benzo(a)anthracene	<6.92	µg/L	6.92	10.4	1	08/02/21 18:45	JMV	V7251
Benzo(a)pyrene	<4.86	µg/L	4.86	10.4	1	08/02/21 18:45	JMV	V7251
Benzo(b)fluoranthene	<4.70	µg/L	4.70	10.4	1	08/02/21 18:45	JMV	V7251
Benzo(g,h,i)perylene	<4.41	µg/L	4.41	10.4	1	08/02/21 18:45	JMV	V7251
Benzo(k)fluoranthene	<5.05	µg/L	5.05	10.4	1	08/02/21 18:45	JMV	V7251
Benzoic Acid	<12.0	µg/L	12.0	52.1	1	08/02/21 18:45	JMV	V7251
Benzyl alcohol	<8.94	µg/L	8.94	10.4	1	08/02/21 18:45	JMV	V7251
Bis(2-Chloroethoxy)methane	<5.90	µg/L	5.90	10.4	1	08/02/21 18:45	JMV	V7251

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

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Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65

Information :

Report Date : 08/10/2021

Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00

Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-Chloroethyl)ether	<7.59	µg/L	7.59	10.4	1	08/02/21 18:45	JMV	V7251
Bis(2-Chloroisopropyl)ether	<6.85	µg/L	6.85	10.4	1	08/02/21 18:45	JMV	V7251
Bis(2-ethylhexyl)phthalate	<9.15	µg/L	9.15	10.4	1	08/02/21 18:45	JMV	V7251
4-Bromophenyl phenyl ether	<6.51	µg/L	6.51	20.8	1	08/02/21 18:45	JMV	V7251
Butyl benzyl phthalate	<4.71	µg/L	4.71	10.4	1	08/02/21 18:45	JMV	V7251
4-Chloro-3-methylphenol	<5.44	µg/L	5.44	10.4	1	08/02/21 18:45	JMV	V7251
2-Chloronaphthalene	<7.68	µg/L	7.68	20.8	1	08/02/21 18:45	JMV	V7251
2-Chlorophenol	<6.84	µg/L	6.84	10.4	1	08/02/21 18:45	JMV	V7251
4-Chlorophenyl phenyl ether	<7.27	µg/L	7.27	20.8	1	08/02/21 18:45	JMV	V7251
Chrysene	<5.60	µg/L	5.60	10.4	1	08/02/21 18:45	JMV	V7251
Dibenz(a,h)anthracene	<6.25	µg/L	6.25	20.8	1	08/02/21 18:45	JMV	V7251
Dibenzofuran	<5.28	µg/L	5.28	20.8	1	08/02/21 18:45	JMV	V7251
1,2-Dichlorobenzene	<6.15	µg/L	6.15	10.4	1	08/02/21 18:45	JMV	V7251
1,3-Dichlorobenzene	<6.06	µg/L	6.06	10.4	1	08/02/21 18:45	JMV	V7251
1,4-Dichlorobenzene	<6.15	µg/L	6.15	10.4	1	08/02/21 18:45	JMV	V7251
3,3'-Dichlorobenzidine	<6.86	µg/L	6.86	10.4	1	08/02/21 18:45	JMV	V7251
2,4-Dichlorophenol	<5.76	µg/L	5.76	10.4	1	08/02/21 18:45	JMV	V7251
Diethyl phthalate	<9.72	µg/L	9.72	20.8	1	08/02/21 18:45	JMV	V7251
Dimethyl phthalate	<8.13	µg/L	8.13	10.4	1	08/02/21 18:45	JMV	V7251
2,4-Dimethylphenol	<11.4	µg/L	11.4	20.8	1	08/02/21 18:45	JMV	V7251
Di-n-butyl phthalate	<7.64	µg/L	7.64	10.4	1	08/02/21 18:45	JMV	V7251
4,6-Dinitro-2-methylphenol	<10.3	µg/L	10.3	31.3	1	08/02/21 18:45	JMV	V7251

Qualifiers/ * Outside QC Limit
Definitions J Estimated value

DF Dilution Factor
MQL Method Quantitation Limit

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Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00
Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrophenol	<11.1	µg/L	11.1	31.3	1	08/02/21 18:45	JMV	V7251
2,4-Dinitrotoluene	<5.41	µg/L	5.41	10.4	1	08/02/21 18:45	JMV	V7251
2,6-Dinitrotoluene	<6.14	µg/L	6.14	20.8	1	08/02/21 18:45	JMV	V7251
Di-n-Octyl Phthalate	<5.21	µg/L	5.21	10.4	1	08/02/21 18:45	JMV	V7251
Fluoranthene	<6.27	µg/L	6.27	10.4	1	08/02/21 18:45	JMV	V7251
Fluorene	<7.56	µg/L	7.56	10.4	1	08/02/21 18:45	JMV	V7251
Hexachlorobenzene	<5.98	µg/L	5.98	20.8	1	08/02/21 18:45	JMV	V7251
Hexachlorobutadiene	<6.12	µg/L	6.12	20.8	1	08/02/21 18:45	JMV	V7251
Hexachlorocyclopentadiene	<6.14	µg/L	6.14	20.8	1	08/02/21 18:45	JMV	V7251
Hexachloroethane	<5.43	µg/L	5.43	10.4	1	08/02/21 18:45	JMV	V7251
Indeno(1,2,3-cd)pyrene	<6.45	µg/L	6.45	10.4	1	08/02/21 18:45	JMV	V7251
Isophorone	<6.98	µg/L	6.98	10.4	1	08/02/21 18:45	JMV	V7251
Naphthalene	<8.20	µg/L	8.20	10.4	1	08/02/21 18:45	JMV	V7251
Nitrobenzene	<8.20	µg/L	8.20	10.4	1	08/02/21 18:45	JMV	V7251
2-Nitrophenol	<5.71	µg/L	5.71	10.4	1	08/02/21 18:45	JMV	V7251
4-Nitrophenol	<2.92	µg/L	2.92	10.4	1	08/02/21 18:45	JMV	V7251
N-Nitrosodiphenylamine	<11.4	µg/L	11.4	20.8	1	08/02/21 18:45	JMV	V7251
N-Nitroso-di-n-propylamine	<8.42	µg/L	8.42	20.8	1	08/02/21 18:45	JMV	V7251
Pentachlorophenol	<10.1	µg/L	10.1	52.1	1	08/02/21 18:45	JMV	V7251
Phenanthrene	<6.59	µg/L	6.59	10.4	1	08/02/21 18:45	JMV	V7251
Phenol	<2.97	µg/L	2.97	10.4	1	08/02/21 18:45	JMV	V7251
Pyrene	<5.64	µg/L	5.64	10.4	1	08/02/21 18:45	JMV	V7251

Qualifiers/Definitions	*	Outside QC Limit	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**
Sample ID : **GW-1**

Matrix: **Aqueous**
Sampled: **7/28/2021 13:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00
Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2,4-Trichlorobenzene	<6.50	µg/L	6.50	10.4	1	08/02/21 18:45	JMV	V7251
2,4,6-Trichlorophenol	<6.54	µg/L	6.54	20.8	1	08/02/21 18:45	JMV	V7251
Surrogate: Phenol-d5	27.9		Limits: 10-63%		1	08/02/21 18:45	JMV	V7251
Surrogate: 2-Fluorobiphenyl	69.7		Limits: 49-118%		1	08/02/21 18:45	JMV	V7251
Surrogate: 2-Fluorophenol	38.3		Limits: 22-84%		1	08/02/21 18:45	JMV	V7251
Surrogate: Nitrobenzene-d5	66.0		Limits: 43-123%		1	08/02/21 18:45	JMV	V7251
Surrogate: 4-Terphenyl-d14	92.5		Limits: 49-151%		1	08/02/21 18:45	JMV	V7251
Surrogate: 2,4,6-Tribromophenol	91.8		Limits: 31-144%		1	08/02/21 18:45	JMV	V7251

Qualifiers/Definitions	*	Outside QC Limit	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

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Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92706**

Matrix: **Aqueous**

Sample ID : **GW-1**

Sampled: **7/28/2021 13:00**

Analytical Method: MADEP-EPH		Prep Batch(es): V7234		08/04/21 10:30					
Prep Method: MAEPH (Prep)									
Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
Aliphatic C9-C18	<28.2	µg/L	28.2	350	1	08/09/21 21:30	ZRC	V7419	
Aliphatic C19-C36	<124	µg/L	124	500	1	08/09/21 21:30	ZRC	V7419	
Aromatic C11-C22	<61.2	µg/L	61.2	250	1	08/09/21 21:30	ZRC	V7419	
Surrogate: 2-Bromonaphthalene	84.5		Limits: 40-140%		1	08/09/21 21:30	ZRC	V7419	
Surrogate: Chlorooctadecane	55.5		Limits: 40-140%		1	08/09/21 21:30	ZRC	V7419	
Surrogate: OTP Surrogate	75.0		Limits: 40-140%		1	08/09/21 21:30	ZRC	V7419	
Surrogate: 2-Fluorobiphenyl	87.3		Limits: 40-140%		1	08/09/21 21:30	ZRC	V7419	

Analytical Method: MADEP-VPH		Prep Batch(es): V7128		07/30/21 08:00					
Prep Method: MAVPH (Prep)									
Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
Aliphatic C5-C8	<11.5	µg/L	11.5	50.0	1	07/30/21 17:03	TBL	V7130	
Aliphatic C9-C12	27.5 J	µg/L	25.8	50.0	1	07/30/21 17:03	TBL	V7130	
Aromatic C9-C10	<4.02	µg/L	4.02	50.0	1	07/30/21 17:03	TBL	V7130	
Surrogate: 2,5-Dibromotoluene (FID)	101		Limits: 70-130%		1	07/30/21 17:03	TBL	V7130	
Surrogate: 2,5-Dibromotoluene (PID)	96.4		Limits: 70-130%		1	07/30/21 17:03	TBL	V7130	

Qualifiers/	Definitions			
*	Outside QC Limit		DF	Dilution Factor
J	Estimated value		MQL	Method Quantitation Limit

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Synterra Corporation - Cary
 Harrison Carter
 511 Keisler Dr.
 Cary , NC 2758

Project Parcel 65
 Information :

Report Date : 08/10/2021
 Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	4.80 J	µg/L	1.80	10.0	1	08/03/21 17:00	JLB	V7233
Benzene	<0.180	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
Bromobenzene	<0.210	µg/L	0.210	0.500	1	08/03/21 17:00	JLB	V7233
Bromochloromethane	<0.420	µg/L	0.420	1.00	1	08/03/21 17:00	JLB	V7233
Bromodichloromethane	<0.160	µg/L	0.160	0.500	1	08/03/21 17:00	JLB	V7233
Bromoform	<1.50	µg/L	1.50	5.00	1	08/03/21 17:00	JLB	V7233
Bromomethane	<0.280	µg/L	0.280	1.00	1	08/03/21 17:00	JLB	V7233
n-Butylbenzene	1.01	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
sec-Butyl benzene	2.33	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
tert-Butyl benzene	<0.920	µg/L	0.920	2.00	1	08/03/21 17:00	JLB	V7233
Carbon Tetrachloride	<0.180	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
Chlorobenzene	<0.190	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
Chlorodibromomethane	<0.190	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
Chloroethane	<0.430	µg/L	0.430	1.00	1	08/03/21 17:00	JLB	V7233
Chloroform	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
Chloromethane	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
2-Chlorotoluene	<0.200	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
4-Chlorotoluene	<0.200	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
Di-Isopropyl Ether (DIPE)	<0.500	µg/L	0.500	0.500	1	08/03/21 17:00	JLB	V7233
1,2-Dibromo-3-Chloropropane	<1.10	µg/L	1.10	2.00	1	08/03/21 17:00	JLB	V7233
1,2-Dibromoethane	<0.200	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
Dibromomethane	<0.230	µg/L	0.230	0.500	1	08/03/21 17:00	JLB	V7233

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
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Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2-Dichlorobenzene	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
1,3-Dichlorobenzene	<0.190	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
1,4-Dichlorobenzene	<0.210	µg/L	0.210	0.500	1	08/03/21 17:00	JLB	V7233
Dichlorodifluoromethane	<1.20	µg/L	1.20	5.00	1	08/03/21 17:00	JLB	V7233
1,1-Dichloroethane	<0.240	µg/L	0.240	0.500	1	08/03/21 17:00	JLB	V7233
1,2-Dichloroethane	<0.150	µg/L	0.150	0.500	1	08/03/21 17:00	JLB	V7233
1,1-Dichloroethene	<0.150	µg/L	0.150	0.500	1	08/03/21 17:00	JLB	V7233
cis-1,2-Dichloroethene	<0.200	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
trans-1,2-Dichloroethene	<0.180	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
1,2-Dichloropropane	<0.190	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
1,3-Dichloropropane	<0.130	µg/L	0.130	0.500	1	08/03/21 17:00	JLB	V7233
2,2-Dichloropropane	<0.210	µg/L	0.210	2.00	1	08/03/21 17:00	JLB	V7233
1,1-Dichloropropene	<0.200	µg/L	0.200	0.500	1	08/03/21 17:00	JLB	V7233
cis-1,3-Dichloropropene	<0.210	µg/L	0.210	0.500	1	08/03/21 17:00	JLB	V7233
trans-1,3-Dichloropropene	<0.150	µg/L	0.150	0.500	1	08/03/21 17:00	JLB	V7233
Ethanol	<42.0	µg/L	42.0	200	1	08/03/21 17:00	JLB	V7233
Ethylbenzene	0.436 J	µg/L	0.170	0.500	1	08/03/21 17:00	JLB	V7233
Hexachlorobutadiene	<0.350	µg/L	0.350	3.00	1	08/03/21 17:00	JLB	V7233
2-Hexanone	<0.380	µg/L	0.380	1.00	1	08/03/21 17:00	JLB	V7233
Isopropylbenzene	1.10	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
4-Isopropyl toluene	1.59	µg/L	0.089	0.500	1	08/03/21 17:00	JLB	V7233
Methyl Ethyl Ketone (MEK)	<0.710	µg/L	0.710	5.00	1	08/03/21 17:00	JLB	V7233

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00
Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Methyl tert-butyl ether (MTBE)	<0.140	µg/L	0.140	1.00	1	08/03/21 17:00	JLB	V7233
4-Methyl-2-Pentanone	<0.078	µg/L	0.078	1.00	1	08/03/21 17:00	JLB	V7233
Methylene Chloride	<0.330	µg/L	0.330	2.00	1	08/03/21 17:00	JLB	V7233
Naphthalene	4.27	µg/L	0.470	1.00	1	08/03/21 17:00	JLB	V7233
n-Propylbenzene	1.73	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
Styrene	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
1,1,1,2-Tetrachloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 17:00	JLB	V7233
1,1,2,2-Tetrachloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 17:00	JLB	V7233
Tetrachloroethene	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
Toluene	<0.220	µg/L	0.220	0.500	1	08/03/21 17:00	JLB	V7233
1,2,3-Trichlorobenzene	<0.380	µg/L	0.380	0.500	1	08/03/21 17:00	JLB	V7233
1,2,4-Trichlorobenzene	<0.310	µg/L	0.310	0.500	1	08/03/21 17:00	JLB	V7233
1,1,1-Trichloroethane	<0.160	µg/L	0.160	0.500	1	08/03/21 17:00	JLB	V7233
1,1,2-Trichloroethane	<0.096	µg/L	0.096	0.500	1	08/03/21 17:00	JLB	V7233
Trichloroethene	<0.180	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
Trichlorofluoromethane	<0.180	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
1,2,3-Trichloropropane	<0.270	µg/L	0.270	0.500	1	08/03/21 17:00	JLB	V7233
1,2,4-Trimethylbenzene	6.30	µg/L	0.190	0.500	1	08/03/21 17:00	JLB	V7233
1,3,5-Trimethylbenzene	2.38	µg/L	0.180	0.500	1	08/03/21 17:00	JLB	V7233
Vinyl Acetate	<1.00	µg/L	1.00	5.00	1	08/03/21 17:00	JLB	V7233
Vinyl Chloride	<0.170	µg/L	0.170	0.500	1	08/03/21 17:00	JLB	V7233
o-Xylene	<0.210	µg/L	0.210	0.500	1	08/03/21 17:00	JLB	V7233

Qualifiers/Definitions	*	Outside QC Limit	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65

Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 6200B **Prep Batch(es):** **V7231** 08/03/21 09:00

Prep Method: 6200 PT

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
m,p-Xylene	<0.420	µg/L	0.420	1.00	1	08/03/21 17:00	JLB	V7233
Xylene (Total)	<0.21	µg/L	0.210	0.500	1	08/03/21 17:00		V7233
Surrogate: 4-Bromofluorobenzene	95.2		Limits: 70-130%		1	08/03/21 17:00	JLB	V7233
Surrogate: Dibromofluoromethane	98.8		Limits: 70-130%		1	08/03/21 17:00	JLB	V7233
Surrogate: 1,2-Dichloroethane - d4	89.8		Limits: 70-130%		1	08/03/21 17:00	JLB	V7233
Surrogate: Toluene-d8	91.4		Limits: 70-130%		1	08/03/21 17:00	JLB	V7233

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00

Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<8.40	µg/L	8.40	11.8	1	08/02/21 19:07	JMV	V7251
Acenaphthylene	<8.15	µg/L	8.15	23.5	1	08/02/21 19:07	JMV	V7251
Anthracene	<7.75	µg/L	7.75	11.8	1	08/02/21 19:07	JMV	V7251
Benzdine	<5.99	µg/L	5.99	11.8	1	08/02/21 19:07	JMV	V7251
Benzo(a)anthracene	<7.85	µg/L	7.85	11.8	1	08/02/21 19:07	JMV	V7251
Benzo(a)pyrene	<5.51	µg/L	5.51	11.8	1	08/02/21 19:07	JMV	V7251
Benzo(b)fluoranthene	<5.33	µg/L	5.33	11.8	1	08/02/21 19:07	JMV	V7251
Benzo(g,h,i)perylene	<5.00	µg/L	5.00	11.8	1	08/02/21 19:07	JMV	V7251
Benzo(k)fluoranthene	<5.73	µg/L	5.73	11.8	1	08/02/21 19:07	JMV	V7251
Benzoic Acid	<13.5	µg/L	13.5	58.8	1	08/02/21 19:07	JMV	V7251
Benzyl alcohol	<10.1	µg/L	10.1	11.8	1	08/02/21 19:07	JMV	V7251
Bis(2-Chloroethoxy)methane	<6.69	µg/L	6.69	11.8	1	08/02/21 19:07	JMV	V7251

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00
Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-Chloroethyl)ether	<8.61	µg/L	8.61	11.8	1	08/02/21 19:07	JMV	V7251
Bis(2-Chloroisopropyl)ether	<7.78	µg/L	7.78	11.8	1	08/02/21 19:07	JMV	V7251
Bis(2-ethylhexyl)phthalate	<10.4	µg/L	10.4	11.8	1	08/02/21 19:07	JMV	V7251
4-Bromophenyl phenyl ether	<7.36	µg/L	7.36	23.5	1	08/02/21 19:07	JMV	V7251
Butyl benzyl phthalate	<5.35	µg/L	5.35	11.8	1	08/02/21 19:07	JMV	V7251
4-Chloro-3-methylphenol	<6.17	µg/L	6.17	11.8	1	08/02/21 19:07	JMV	V7251
2-Chloronaphthalene	<8.67	µg/L	8.67	23.5	1	08/02/21 19:07	JMV	V7251
2-Chlorophenol	<7.76	µg/L	7.76	11.8	1	08/02/21 19:07	JMV	V7251
4-Chlorophenyl phenyl ether	<8.21	µg/L	8.21	23.5	1	08/02/21 19:07	JMV	V7251
Chrysene	<6.35	µg/L	6.35	11.8	1	08/02/21 19:07	JMV	V7251
Dibenz(a,h)anthracene	<7.06	µg/L	7.06	23.5	1	08/02/21 19:07	JMV	V7251
Dibenzofuran	<5.97	µg/L	5.97	23.5	1	08/02/21 19:07	JMV	V7251
1,2-Dichlorobenzene	<6.97	µg/L	6.97	11.8	1	08/02/21 19:07	JMV	V7251
1,3-Dichlorobenzene	<6.88	µg/L	6.88	11.8	1	08/02/21 19:07	JMV	V7251
1,4-Dichlorobenzene	<6.97	µg/L	6.97	11.8	1	08/02/21 19:07	JMV	V7251
3,3'-Dichlorobenzidine	<7.79	µg/L	7.79	11.8	1	08/02/21 19:07	JMV	V7251
2,4-Dichlorophenol	<6.54	µg/L	6.54	11.8	1	08/02/21 19:07	JMV	V7251
Diethyl phthalate	<11.0	µg/L	11.0	23.5	1	08/02/21 19:07	JMV	V7251
Dimethyl phthalate	<9.23	µg/L	9.23	11.8	1	08/02/21 19:07	JMV	V7251
2,4-Dimethylphenol	<12.9	µg/L	12.9	23.5	1	08/02/21 19:07	JMV	V7251
Di-n-butyl phthalate	<8.67	µg/L	8.67	11.8	1	08/02/21 19:07	JMV	V7251
4,6-Dinitro-2-methylphenol	<11.7	µg/L	11.7	35.3	1	08/02/21 19:07	JMV	V7251

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00
Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrophenol	<12.5	µg/L	12.5	35.3	1	08/02/21 19:07	JMV	V7251
2,4-Dinitrotoluene	<6.14	µg/L	6.14	11.8	1	08/02/21 19:07	JMV	V7251
2,6-Dinitrotoluene	<6.93	µg/L	6.93	23.5	1	08/02/21 19:07	JMV	V7251
Di-n-Octyl Phthalate	<5.91	µg/L	5.91	11.8	1	08/02/21 19:07	JMV	V7251
Fluoranthene	<7.12	µg/L	7.12	11.8	1	08/02/21 19:07	JMV	V7251
Fluorene	<8.58	µg/L	8.58	11.8	1	08/02/21 19:07	JMV	V7251
Hexachlorobenzene	<6.76	µg/L	6.76	23.5	1	08/02/21 19:07	JMV	V7251
Hexachlorobutadiene	<6.91	µg/L	6.91	23.5	1	08/02/21 19:07	JMV	V7251
Hexachlorocyclopentadiene	<6.93	µg/L	6.93	23.5	1	08/02/21 19:07	JMV	V7251
Hexachloroethane	<6.16	µg/L	6.16	11.8	1	08/02/21 19:07	JMV	V7251
Indeno(1,2,3-cd)pyrene	<7.32	µg/L	7.32	11.8	1	08/02/21 19:07	JMV	V7251
Isophorone	<7.92	µg/L	7.92	11.8	1	08/02/21 19:07	JMV	V7251
Naphthalene	<9.30	µg/L	9.30	11.8	1	08/02/21 19:07	JMV	V7251
Nitrobenzene	<9.30	µg/L	9.30	11.8	1	08/02/21 19:07	JMV	V7251
2-Nitrophenol	<6.48	µg/L	6.48	11.8	1	08/02/21 19:07	JMV	V7251
4-Nitrophenol	<3.32	µg/L	3.32	11.8	1	08/02/21 19:07	JMV	V7251
N-Nitrosodiphenylamine	<12.8	µg/L	12.8	23.5	1	08/02/21 19:07	JMV	V7251
N-Nitroso-di-n-propylamine	<9.52	µg/L	9.52	23.5	1	08/02/21 19:07	JMV	V7251
Pentachlorophenol	<11.4	µg/L	11.4	58.8	1	08/02/21 19:07	JMV	V7251
Phenanthrene	<7.48	µg/L	7.48	11.8	1	08/02/21 19:07	JMV	V7251
Phenol	<3.37	µg/L	3.37	11.8	1	08/02/21 19:07	JMV	V7251
Pyrene	<6.40	µg/L	6.40	11.8	1	08/02/21 19:07	JMV	V7251

Qualifiers/Definitions	*	Outside QC Limit	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary , NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: 625.1 **Prep Batch(es):** **V7150** 08/02/21 10:00

Prep Method: 625.1 (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2,4-Trichlorobenzene	<7.38	µg/L	7.38	11.8	1	08/02/21 19:07	JMV	V7251
2,4,6-Trichlorophenol	<7.39	µg/L	7.39	23.5	1	08/02/21 19:07	JMV	V7251
Surrogate: Phenol-d5	5.25 *		Limits: 10-63%		1	08/02/21 19:07	JMV	V7251
Surrogate: 2-Fluorobiphenyl	14.9 *		Limits: 49-118%		1	08/02/21 19:07	JMV	V7251
Surrogate: 2-Fluorophenol	6.19 *		Limits: 22-84%		1	08/02/21 19:07	JMV	V7251
Surrogate: Nitrobenzene-d5	14.1 *		Limits: 43-123%		1	08/02/21 19:07	JMV	V7251
Surrogate: 4-Terphenyl-d14	19.6 *		Limits: 49-151%		1	08/02/21 19:07	JMV	V7251
Surrogate: 2,4,6-Tribromophenol	7.51 *		Limits: 31-144%		1	08/02/21 19:07	JMV	V7251

Qualifiers/Definitions	*	Outside QC Limit	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

00018

Synterra Corporation - Cary
Harrison Carter
511 Keisler Dr.
Cary, NC 2758

Project Parcel 65
Information :

Report Date : 08/10/2021
Received : 07/30/2021

Report Number : **21-211-0017**

REPORT OF ANALYSIS

Lab No : **92707**

Matrix: **Aqueous**

Sample ID : **GW-2**

Sampled: **7/28/2021 16:00**

Analytical Method: MADEP-EPH **Prep Batch(es):** **V7234** 08/04/21 10:30
Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	151 J	µg/L	28.2	350	1	08/09/21 22:06	ZRC	V7419
Aliphatic C19-C36	<124	µg/L	124	500	1	08/09/21 22:06	ZRC	V7419
Aromatic C11-C22	197 J	µg/L	61.2	250	1	08/09/21 22:06	ZRC	V7419
Surrogate: 2-Bromonaphthalene	102		Limits: 40-140%		1	08/09/21 22:06	ZRC	V7419
Surrogate: Chlorooctadecane	9.50 *		Limits: 40-140%		1	08/09/21 22:06	ZRC	V7419
Surrogate: OTP Surrogate	12.4 *		Limits: 40-140%		1	08/09/21 22:06	ZRC	V7419
Surrogate: 2-Fluorobiphenyl	92.0		Limits: 40-140%		1	08/09/21 22:06	ZRC	V7419

Analytical Method: MADEP-VPH **Prep Batch(es):** **V7128** 07/30/21 08:00
Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	<11.5	µg/L	11.5	50.0	1	07/30/21 17:32	TBL	V7130
Aliphatic C9-C12	267	µg/L	25.8	50.0	1	07/30/21 17:32	TBL	V7130
Aromatic C9-C10	117	µg/L	4.02	50.0	1	07/30/21 17:32	TBL	V7130
Surrogate: 2,5-Dibromotoluene (FID)	110		Limits: 70-130%		1	07/30/21 17:32	TBL	V7130
Surrogate: 2,5-Dibromotoluene (PID)	107		Limits: 70-130%		1	07/30/21 17:32	TBL	V7130

Qualifiers/ * Outside QC Limit DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V7231 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	µg/L	<1.80	1.80	10.0	08/03/21 12:54		
Benzene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
Bromobenzene	µg/L	<0.210	0.210	0.500	08/03/21 12:54		
Bromochloromethane	µg/L	<0.420	0.420	1.00	08/03/21 12:54		
Bromodichloromethane	µg/L	<0.160	0.160	0.500	08/03/21 12:54		
Bromoform	µg/L	<1.50	1.50	5.00	08/03/21 12:54		
Bromomethane	µg/L	<0.280	0.280	1.00	08/03/21 12:54		
n-Butylbenzene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
sec-Butyl benzene	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
tert-Butyl benzene	µg/L	<0.920	0.920	2.00	08/03/21 12:54		
Carbon Tetrachloride	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
Chlorobenzene	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
Chlorodibromomethane	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
Chloroethane	µg/L	<0.430	0.430	1.00	08/03/21 12:54		
Chloroform	µg/L	<0.220	0.220	0.500	08/03/21 12:54		
Chloromethane	µg/L	<0.220	0.220	0.500	08/03/21 12:54		
2-Chlorotoluene	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
4-Chlorotoluene	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
Di-Isopropyl Ether (DIPE)	µg/L	<0.500	0.500	0.500	08/03/21 12:54		
1,2-Dibromo-3-Chloropropane	µg/L	<1.10	1.10	2.00	08/03/21 12:54		
1,2-Dibromoethane	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
Dibromomethane	µg/L	<0.230	0.230	0.500	08/03/21 12:54		
1,2-Dichlorobenzene	µg/L	<0.220	0.220	0.500	08/03/21 12:54		
1,3-Dichlorobenzene	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
1,4-Dichlorobenzene	µg/L	<0.210	0.210	0.500	08/03/21 12:54		
Dichlorodifluoromethane	µg/L	<1.20	1.20	5.00	08/03/21 12:54		
1,1-Dichloroethane	µg/L	<0.240	0.240	0.500	08/03/21 12:54		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V7231 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichloroethane	µg/L	<0.150	0.150	0.500	08/03/21 12:54		
1,1-Dichloroethene	µg/L	<0.150	0.150	0.500	08/03/21 12:54		
cis-1,2-Dichloroethene	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
trans-1,2-Dichloroethene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
1,2-Dichloropropane	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
1,3-Dichloropropane	µg/L	<0.130	0.130	0.500	08/03/21 12:54		
2,2-Dichloropropane	µg/L	<0.210	0.210	2.00	08/03/21 12:54		
1,1-Dichloropropene	µg/L	<0.200	0.200	0.500	08/03/21 12:54		
cis-1,3-Dichloropropene	µg/L	<0.210	0.210	0.500	08/03/21 12:54		
trans-1,3-Dichloropropene	µg/L	<0.150	0.150	0.500	08/03/21 12:54		
Ethanol	µg/L	<42.0	42.0	200	08/03/21 12:54		
Ethylbenzene	µg/L	<0.170	0.170	0.500	08/03/21 12:54		
Hexachlorobutadiene	µg/L	<0.350	0.350	3.00	08/03/21 12:54		
2-Hexanone	µg/L	<0.380	0.380	1.00	08/03/21 12:54		
Isopropylbenzene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
4-Isopropyl toluene	µg/L	<0.089	0.089	0.500	08/03/21 12:54		
Methyl Ethyl Ketone (MEK)	µg/L	<0.710	0.710	5.00	08/03/21 12:54		
Methyl tert-butyl ether (MTBE)	µg/L	<0.140	0.140	1.00	08/03/21 12:54		
4-Methyl-2-Pentanone	µg/L	<0.078	0.078	1.00	08/03/21 12:54		
Methylene Chloride	µg/L	<0.330	0.330	2.00	08/03/21 12:54		
Naphthalene	µg/L	<0.470	0.470	1.00	08/03/21 12:54		
n-Propylbenzene	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
Styrene	µg/L	<0.220	0.220	0.500	08/03/21 12:54		
1,1,1,2-Tetrachloroethane	µg/L	<0.160	0.160	0.500	08/03/21 12:54		
1,1,2,2-Tetrachloroethane	µg/L	<0.160	0.160	0.500	08/03/21 12:54		
Tetrachloroethene	µg/L	<0.220	0.220	0.500	08/03/21 12:54		
Toluene	µg/L	<0.220	0.220	0.500	08/03/21 12:54		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V7231 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2,3-Trichlorobenzene	µg/L	<0.380	0.380	0.500	08/03/21 12:54		
1,2,4-Trichlorobenzene	µg/L	<0.310	0.310	0.500	08/03/21 12:54		
1,1,1-Trichloroethane	µg/L	<0.160	0.160	0.500	08/03/21 12:54		
1,1,2-Trichloroethane	µg/L	<0.096	0.096	0.500	08/03/21 12:54		
Trichloroethene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
Trichlorofluoromethane	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
1,2,3-Trichloropropane	µg/L	<0.270	0.270	0.500	08/03/21 12:54		
1,2,4-Trimethylbenzene	µg/L	<0.190	0.190	0.500	08/03/21 12:54		
1,3,5-Trimethylbenzene	µg/L	<0.180	0.180	0.500	08/03/21 12:54		
Vinyl Acetate	µg/L	<1.00	1.00	5.00	08/03/21 12:54		
Vinyl Chloride	µg/L	<0.170	0.170	0.500	08/03/21 12:54		
o-Xylene	µg/L	<0.210	0.210	0.500	08/03/21 12:54		
m,p-Xylene	µg/L	<0.420	0.420	1.00	08/03/21 12:54		
4-Bromofluorobenzene (S)					08/03/21 12:54	96.4	70-130
Dibromofluoromethane (S)					08/03/21 12:54	95.8	70-130
1,2-Dichloroethane - d4 (S)					08/03/21 12:54	87.6	70-130
Toluene-d8 (S)					08/03/21 12:54	91.6	70-130

Laboratory Control Sample & LCSD LCS-V7231 LCSD-V7231

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acetone	µg/L	40.0	39.4	39.0	98.5	97.5	40-160	1.0	20.0
Benzene	µg/L	20.0	20.8	20.4	104	102	70-130	1.9	20.0
Bromobenzene	µg/L	20.0	17.0	15.9	85.0	79.5	70-130	6.6	20.0
Bromochloromethane	µg/L	20.0	23.0	22.6	115	113	70-130	1.7	20.0
Bromodichloromethane	µg/L	20.0	21.4	20.9	107	105	70-130	2.3	20.0

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCS LCS-V7231 LCS-D-V7231

Parameter	Units	Spike Conc.	LCS Result	LCS-D Result	LCS %Rec	LCS-D % Rec	% Rec Limits	RPD	Max RPD
Bromoform	µg/L	20.0	21.3	19.4	107	97.0	70-130	9.3	20.0
Bromomethane	µg/L	20.0	20.7	19.3	104	96.5	60-140	7.0	20.0
n-Butylbenzene	µg/L	20.0	18.4	16.7	92.0	83.5	70-130	9.6	20.0
sec-Butyl benzene	µg/L	20.0	18.1	17.5	90.5	87.5	70-130	3.3	20.0
tert-Butyl benzene	µg/L	20.0	18.3	18.1	91.5	90.5	70-130	1.0	20.0
Carbon Tetrachloride	µg/L	20.0	23.3	22.4	117	112	70-130	3.9	20.0
Chlorobenzene	µg/L	20.0	19.5	19.2	97.5	96.0	70-130	1.5	20.0
Chlorodibromomethane	µg/L	20.0	20.7	20.3	104	102	70-130	1.9	20.0
Chloroethane	µg/L	20.0	20.0	19.8	100	99.0	60-140	1.0	20.0
Chloroform	µg/L	20.0	20.4	19.9	102	99.5	70-130	2.4	20.0
Chloromethane	µg/L	20.0	20.4	20.4	102	102	60-140	0.0	20.0
2-Chlorotoluene	µg/L	20.0	18.3	17.6	91.5	88.0	70-130	3.8	20.0
4-Chlorotoluene	µg/L	20.0	17.8	17.1	89.0	85.5	70-130	4.0	20.0
Di-Isopropyl Ether (DIPE)	µg/L	20.0	19.7	19.8	98.5	99.0	70-130	0.5	20.0
1,2-Dibromo-3-Chloropropane	µg/L	20.0	20.0	20.8	100	104	70-130	3.9	20.0
1,2-Dibromoethane	µg/L	20.0	21.2	20.3	106	102	70-130	4.3	20.0
Dibromomethane	µg/L	20.0	20.6	20.7	103	104	70-130	0.4	20.0
1,2-Dichlorobenzene	µg/L	20.0	18.6	18.2	93.0	91.0	70-130	2.1	20.0
1,3-Dichlorobenzene	µg/L	20.0	18.4	18.3	92.0	91.5	70-130	0.5	20.0
1,4-Dichlorobenzene	µg/L	20.0	18.4	17.9	92.0	89.5	70-130	2.7	20.0
Dichlorodifluoromethane	µg/L	20.0	18.3	17.8	91.5	89.0	60-140	2.7	20.0
1,1-Dichloroethane	µg/L	20.0	20.6	20.2	103	101	70-130	1.9	20.0
1,2-Dichloroethane	µg/L	20.0	20.1	19.6	101	98.0	70-130	2.5	20.0
1,1-Dichloroethene	µg/L	20.0	20.9	20.5	105	103	70-130	1.9	20.0
cis-1,2-Dichloroethene	µg/L	20.0	19.6	19.5	98.0	97.5	70-130	0.5	20.0
trans-1,2-Dichloroethene	µg/L	20.0	20.6	20.2	103	101	70-130	1.9	20.0

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V7231 LCSD-V7231

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
1,2-Dichloropropane	µg/L	20.0	19.7	19.3	98.5	96.5	70-130	2.0	20.0
1,3-Dichloropropane	µg/L	20.0	19.1	18.9	95.5	94.5	70-130	1.0	20.0
2,2-Dichloropropane	µg/L	20.0	24.6	20.5	123	103	70-130	18.1	20.0
1,1-Dichloropropene	µg/L	20.0	20.4	20.6	102	103	70-130	0.9	20.0
cis-1,3-Dichloropropene	µg/L	20.0	22.0	21.6	110	108	70-130	1.8	20.0
trans-1,3-Dichloropropene	µg/L	20.0	23.3	22.4	117	112	70-130	3.9	20.0
Ethanol	µg/L	500	519	597	104	119	60-140	13.9	20.0
Ethylbenzene	µg/L	20.0	19.3	18.3	96.5	91.5	70-130	5.3	20.0
Hexachlorobutadiene	µg/L	20.0	20.1	21.2	101	106	70-130	5.3	20.0
2-Hexanone	µg/L	20.0	17.9	18.4	89.5	92.0	60-140	2.7	20.0
Isopropylbenzene	µg/L	20.0	18.2	20.8	91.0	104	70-130	13.3	20.0
4-Isopropyl toluene	µg/L	20.0	18.4	17.4	92.0	87.0	70-130	5.5	20.0
Methyl Ethyl Ketone (MEK)	µg/L	20.0	17.1	18.0	85.5	90.0	60-140	5.1	20.0
Methyl tert-butyl ether (MTBE)	µg/L	20.0	24.5	22.8	123	114	70-130	7.1	20.0
4-Methyl-2-Pentanone	µg/L	20.0	19.0	19.5	95.0	97.5	60-140	2.5	20.0
Methylene Chloride	µg/L	20.0	18.8	18.1	94.0	90.5	70-130	3.7	20.0
Naphthalene	µg/L	20.0	21.7	18.7	109	93.5	70-130	14.8	20.0
n-Propylbenzene	µg/L	20.0	18.1	16.7	90.5	83.5	70-130	8.0	20.0
Styrene	µg/L	20.0	20.0	16.8	100	84.0	70-130	17.3	20.0
1,1,1,2-Tetrachloroethane	µg/L	20.0	21.2	18.8	106	94.0	70-130	12.0	20.0
1,1,2,2-Tetrachloroethane	µg/L	20.0	16.8	15.2	84.0	76.0	70-130	10.0	20.0
Tetrachloroethene	µg/L	20.0	20.7	20.5	104	103	70-130	0.9	20.0
Toluene	µg/L	20.0	20.9	20.7	105	104	70-130	0.9	20.0
1,2,3-Trichlorobenzene	µg/L	20.0	20.5	17.6	103	88.0	70-130	15.2	20.0
1,2,4-Trichlorobenzene	µg/L	20.0	20.7	19.0	104	95.0	70-130	8.5	20.0
1,1,1-Trichloroethane	µg/L	20.0	22.5	22.4	113	112	70-130	0.4	20.0

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7231 **QC Analytical Batch(es):** V7233
QC Prep Batch Method: 6200 PT **Analysis Method:** 6200B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V7231 LCSD-V7231

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
1,1,2-Trichloroethane	µg/L	20.0	21.4	21.2	107	106	70-130	0.9	20.0
Trichloroethene	µg/L	20.0	21.8	21.1	109	106	70-130	3.2	20.0
Trichlorofluoromethane	µg/L	20.0	21.0	20.4	105	102	60-140	2.8	20.0
1,2,3-Trichloropropane	µg/L	20.0	17.7	18.9	88.5	94.5	70-130	6.5	20.0
1,2,4-Trimethylbenzene	µg/L	20.0	18.2	18.0	91.0	90.0	70-130	1.1	20.0
1,3,5-Trimethylbenzene	µg/L	20.0	18.5	17.9	92.5	89.5	70-130	3.2	20.0
Vinyl Acetate	µg/L	20.0	24.8	24.5	124	123	60-140	1.2	20.0
Vinyl Chloride	µg/L	20.0	17.5	17.0	87.5	85.0	60-140	2.8	20.0
o-Xylene	µg/L	20.0	19.9	17.1	99.5	85.5	70-130	15.1	20.0
m,p-Xylene	µg/L	40.0	40.6	34.7	102	86.7	70-130	15.6	20.0
4-Bromofluorobenzene (S)					94.6	91.4	70-130		
Dibromofluoromethane (S)					97.4	96.2	70-130		
1,2-Dichloroethane - d4 (S)					91.6	91.8	70-130		
Toluene-d8 (S)					91.0	91.4	70-130		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Lab Reagent Blank LRB-V7150 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	µg/L	<7.12	7.12	10.0	08/02/21 16:53		
Acenaphthylene	µg/L	<6.94	6.94	20.0	08/02/21 16:53		
Anthracene	µg/L	<6.57	6.57	10.0	08/02/21 16:53		
Benzidine	µg/L	<5.08	5.08	10.0	08/02/21 16:53		
Benzo(a)anthracene	µg/L	<6.65	6.65	10.0	08/02/21 16:53		
Benzo(a)pyrene	µg/L	<4.67	4.67	10.0	08/02/21 16:53		
Benzo(b)fluoranthene	µg/L	<4.52	4.52	10.0	08/02/21 16:53		
Benzo(g,h,i)perylene	µg/L	<4.24	4.24	10.0	08/02/21 16:53		
Benzo(k)fluoranthene	µg/L	<4.86	4.86	10.0	08/02/21 16:53		
Benzoic Acid	µg/L	<11.5	11.5	50.0	08/02/21 16:53		
Benzyl alcohol	µg/L	<8.60	8.60	10.0	08/02/21 16:53		
Bis(2-Chloroethoxy)methane	µg/L	<5.67	5.67	10.0	08/02/21 16:53		
Bis(2-Chloroethyl)ether	µg/L	<7.30	7.30	10.0	08/02/21 16:53		
Bis(2-Chloroisopropyl)ether	µg/L	<6.59	6.59	10.0	08/02/21 16:53		
Bis(2-ethylhexyl)phthalate	µg/L	<8.80	8.80	10.0	08/02/21 16:53		
4-Bromophenyl phenyl ether	µg/L	<6.26	6.26	20.0	08/02/21 16:53		
Butyl benzyl phthalate	µg/L	<4.53	4.53	10.0	08/02/21 16:53		
4-Chloro-3-methylphenol	µg/L	<5.23	5.23	10.0	08/02/21 16:53		
2-Chloronaphthalene	µg/L	<7.38	7.38	20.0	08/02/21 16:53		
2-Chlorophenol	µg/L	<6.58	6.58	10.0	08/02/21 16:53		
4-Chlorophenyl phenyl ether	µg/L	<6.99	6.99	20.0	08/02/21 16:53		
Chrysene	µg/L	<5.38	5.38	10.0	08/02/21 16:53		
Dibenz(a,h)anthracene	µg/L	<6.01	6.01	20.0	08/02/21 16:53		
Dibenzofuran	µg/L	<5.08	5.08	20.0	08/02/21 16:53		
1,2-Dichlorobenzene	µg/L	<5.91	5.91	10.0	08/02/21 16:53		
1,3-Dichlorobenzene	µg/L	<5.83	5.83	10.0	08/02/21 16:53		
1,4-Dichlorobenzene	µg/L	<5.91	5.91	10.0	08/02/21 16:53		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Lab Reagent Blank LRB-V7150 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
3,3'-Dichlorobenzidine	µg/L	<6.60	6.60	10.0	08/02/21 16:53		
2,4-Dichlorophenol	µg/L	<5.54	5.54	10.0	08/02/21 16:53		
Diethyl phthalate	µg/L	<9.35	9.35	20.0	08/02/21 16:53		
Dimethyl phthalate	µg/L	<7.82	7.82	10.0	08/02/21 16:53		
2,4-Dimethylphenol	µg/L	<10.9	10.9	20.0	08/02/21 16:53		
Di-n-butyl phthalate	µg/L	<7.35	7.35	10.0	08/02/21 16:53		
4,6-Dinitro-2-methylphenol	µg/L	<9.92	9.92	30.0	08/02/21 16:53		
2,4-Dinitrophenol	µg/L	<10.6	10.6	30.0	08/02/21 16:53		
2,4-Dinitrotoluene	µg/L	<5.20	5.20	10.0	08/02/21 16:53		
2,6-Dinitrotoluene	µg/L	<5.90	5.90	20.0	08/02/21 16:53		
Di-n-Octyl Phthalate	µg/L	<5.01	5.01	10.0	08/02/21 16:53		
Fluoranthene	µg/L	<6.03	6.03	10.0	08/02/21 16:53		
Fluorene	µg/L	<7.27	7.27	10.0	08/02/21 16:53		
Hexachlorobenzene	µg/L	<5.75	5.75	20.0	08/02/21 16:53		
Hexachlorobutadiene	µg/L	<5.88	5.88	20.0	08/02/21 16:53		
Hexachlorocyclopentadiene	µg/L	<5.90	5.90	20.0	08/02/21 16:53		
Hexachloroethane	µg/L	<5.22	5.22	10.0	08/02/21 16:53		
Indeno(1,2,3-cd)pyrene	µg/L	<6.20	6.20	10.0	08/02/21 16:53		
Isophorone	µg/L	<6.71	6.71	10.0	08/02/21 16:53		
Naphthalene	µg/L	<7.88	7.88	10.0	08/02/21 16:53		
Nitrobenzene	µg/L	<7.88	7.88	10.0	08/02/21 16:53		
2-Nitrophenol	µg/L	<5.49	5.49	10.0	08/02/21 16:53		
4-Nitrophenol	µg/L	<2.81	2.81	10.0	08/02/21 16:53		
N-Nitrosodiphenylamine	µg/L	<10.9	10.9	20.0	08/02/21 16:53		
N-Nitroso-di-n-propylamine	µg/L	<8.10	8.10	20.0	08/02/21 16:53		
Pentachlorophenol	µg/L	<9.73	9.73	50.0	08/02/21 16:53		
Phenanthrene	µg/L	<6.34	6.34	10.0	08/02/21 16:53		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Lab Reagent Blank LRB-V7150 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Phenol	µg/L	<2.86	2.86	10.0	08/02/21 16:53		
Pyrene	µg/L	<5.42	5.42	10.0	08/02/21 16:53		
1,2,4-Trichlorobenzene	µg/L	<6.25	6.25	10.0	08/02/21 16:53		
2,4,6-Trichlorophenol	µg/L	<6.29	6.29	20.0	08/02/21 16:53		
2-Fluorobiphenyl (S)					08/02/21 16:53	64.8	49-118
2-Fluorophenol (S)					08/02/21 16:53	32.6	22-84
Nitrobenzene-d5 (S)					08/02/21 16:53	57.0	43-123
4-Terphenyl-d14 (S)					08/02/21 16:53	101	49-151
2,4,6-Tribromophenol (S)					08/02/21 16:53	79.9	31-144
Phenol-d5 (S)					08/02/21 16:53	22.9	10-63

Laboratory Control Sample LCS-V7150

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	µg/L	50.0	33.1	66.2	47-145
Acenaphthylene	µg/L	50.0	34.9	69.8	33-145
Anthracene	µg/L	50.0	45.1	90.2	27-133
Benzidine	µg/L	50.0	40.3	80.6	15-150
Benzo(a)anthracene	µg/L	50.0	44.1	88.2	33-143
Benzo(a)pyrene	µg/L	50.0	53.0	106	17-163
Benzo(b)fluoranthene	µg/L	50.0	47.2	94.4	24-159
Benzo(g,h,i)perylene	µg/L	50.0	45.7	91.4	10-219
Benzo(k)fluoranthene	µg/L	50.0	46.5	93.0	11-162
Benzoic Acid	µg/L	50.0	16.0	0.0*	10-125
Benzyl alcohol	µg/L	50.0	32.4	64.8	16-107
Bis(2-Chloroethoxy)methane	µg/L	50.0	41.0	82.0	33-184
Bis(2-Chloroethyl)ether	µg/L	50.0	27.4	54.8	12-158

* QC Fail

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Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Laboratory Control Sample LCS-V7150

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Bis(2-Chloroisopropyl)ether	µg/L	50.0	27.6	55.2	36-166
Bis(2-ethylhexyl)phthalate	µg/L	50.0	49.9	99.8	10-158
4-Bromophenyl phenyl ether	µg/L	50.0	41.2	82.4	53-127
Butyl benzyl phthalate	µg/L	50.0	47.4	94.8	10-152
4-Chloro-3-methylphenol	µg/L	50.0	43.6	87.2	22-147
2-Chloronaphthalene	µg/L	50.0	25.9	51.8*	60-118
2-Chlorophenol	µg/L	50.0	31.3	62.6	23-134
4-Chlorophenyl phenyl ether	µg/L	50.0	39.9	79.8	25-158
Chrysene	µg/L	50.0	44.9	89.8	17-168
Dibenz(a,h)anthracene	µg/L	50.0	29.4	58.8	10-227
Dibenzofuran	µg/L	50.0	37.4	74.8	39-114
1,2-Dichlorobenzene	µg/L	50.0	13.0	26.0*	32-129
1,3-Dichlorobenzene	µg/L	50.0	12.2	24.4	20-124
1,4-Dichlorobenzene	µg/L	50.0	12.0	24.0	20-124
3,3'-Dichlorobenzidine	µg/L	50.0	48.8	97.6	10-262
2,4-Dichlorophenol	µg/L	50.0	38.2	76.4	39-135
Diethyl phthalate	µg/L	50.0	45.7	91.4	10-114
Dimethyl phthalate	µg/L	50.0	43.1	86.2	10-112
2,4-Dimethylphenol	µg/L	50.0	38.8	77.6	32-119
Di-n-butyl phthalate	µg/L	50.0	50.3	101	10-118
4,6-Dinitro-2-methylphenol	µg/L	50.0	41.7	83.4	10-181
2,4-Dinitrophenol	µg/L	50.0	40.2	80.4	10-191
2,4-Dinitrotoluene	µg/L	50.0	46.2	92.4	39-139
2,6-Dinitrotoluene	µg/L	50.0	45.5	91.0	50-158
Di-n-Octyl Phthalate	µg/L	50.0	50.1	100	10-146
Fluoranthene	µg/L	50.0	45.8	91.6	26-137
Fluorene	µg/L	50.0	41.1	82.2	59-121

* QC Fail

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Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Laboratory Control Sample LCS-V7150

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Hexachlorobenzene	µg/L	50.0	43.5	87.0	10-152
Hexachlorobutadiene	µg/L	50.0	13.9	0.0*	24-116
Hexachlorocyclopentadiene	µg/L	50.0	12.3	0.0*	32-117
Hexachloroethane	µg/L	50.0	10.9	21.8*	40-113
Indeno(1,2,3-cd)pyrene	µg/L	50.0	46.2	92.4	10-171
Isophorone	µg/L	50.0	35.2	70.4	21-196
Naphthalene	µg/L	50.0	18.6	37.2	21-133
Nitrobenzene	µg/L	50.0	30.9	61.8	35-180
2-Nitrophenol	µg/L	50.0	33.7	67.4	29-182
4-Nitrophenol	µg/L	50.0	24.5	49.0	10-132
N-Nitrosodiphenylamine	µg/L	50.0	52.4	105	69-152
N-Nitroso-di-n-propylamine	µg/L	50.0	36.5	73.0	10-230
Pentachlorophenol	µg/L	50.0	42.8	0.0*	14-176
Phenanthrene	µg/L	50.0	44.7	89.4	54-120
Phenol	µg/L	50.0	15.8	31.6	10-112
Pyrene	µg/L	50.0	45.2	90.4	52-115
1,2,4-Trichlorobenzene	µg/L	50.0	14.5	29.0*	44-142
2,4,6-Trichlorophenol	µg/L	50.0	40.6	81.2	37-144
2-Fluorobiphenyl (S)				66.8	49-118
2-Fluorophenol (S)				38.3	22-84
Nitrobenzene-d5 (S)				66.4	43-123
4-Terphenyl-d14 (S)				117	49-151
2,4,6-Tribromophenol (S)				94.6	31-144
Phenol-d5 (S)				27.0	10-63

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Matrix Spike & Matrix Spike Duplicate V 92607-MS-V7150 V 92607-MSD-V7150

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	µg/L	< 18.7	132	135	35.8	26.0	27.1*	0.0*	47-145	28.0	33.0
Acenaphthylene	µg/L	< 18.3	132	135	37.5	27.2	0.0*	0.0*	33-145	0.0	30.0
Anthracene	µg/L	< 17.3	132	135	39.9	31.8	30.2	23.5*	27-133	22.5	27.0
Benzidine	µg/L	< 13.4	132	135	<13.4	<13.7	0.0*	0.0*	15-150	0.0	50.0
Benzo(a)anthracene	µg/L	< 17.5	132	135	40.4	32.0	30.6*	23.7*	33-143	23.2*	18.0
Benzo(a)pyrene	µg/L	< 12.3	132	135	47.8	37.0	36.2	27.4	17-163	25.4*	21.0
Benzo(b)fluoranthene	µg/L	< 11.9	132	135	43.8	34.5	33.1	25.5	24-159	23.7	34.0
Benzo(g,h,i)perylene	µg/L	< 11.2	132	135	41.8	32.3	31.6	23.9	10-219	25.6	27.0
Benzo(k)fluoranthene	µg/L	< 12.8	132	135	43.8	33.1	33.1	24.5	11-162	27.8	39.0
Benzoic Acid	µg/L	< 30.4	132	135	<30.4	<31.1	0.0*	0.0*	10-125	0.0	51.0
Benzyl alcohol	µg/L	< 22.6	132	135	41.1	44.2	31.1	32.7	16-107	7.2	37.0
Bis(2-Chloroethoxy)methane	µg/L	< 14.9	132	135	37.4	26.3	28.3*	0.0*	33-184	32.2*	30.0
Bis(2-Chloroethyl)ether	µg/L	< 19.2	132	135	25.6	20.0	0.0*	0.0*	12-158	0.0	33.0
Bis(2-Chloroisopropyl)ether	µg/L	< 17.3	132	135	28.7	21.1	21.7*	0.0*	36-166	6.1	34.0
Bis(2-ethylhexyl)phthalate	µg/L	< 23.1	132	135	48.5	37.8	36.7	28.0	10-158	24.7*	21.0
4-Bromophenyl phenyl ether	µg/L	< 16.5	132	135	36.3	28.5	0.0*	0.0*	53-127	0.0	21.0
Butyl benzyl phthalate	µg/L	< 11.9	132	135	42.6	33.2	32.2	24.5	10-152	24.8*	23.0
4-Chloro-3-methylphenol	µg/L	< 13.8	132	135	14.4	19.6	0.0*	0.0*	22-147	0.0	25.0
2-Chloronaphthalene	µg/L	< 19.4	132	135	33.4	25.2	0.0*	0.0*	60-118	0.0	30.0
2-Chlorophenol	µg/L	< 17.3	132	135	<17.3	<17.8	0.0*	0.0*	23-134	0.0	37.0
4-Chlorophenyl phenyl ether	µg/L	< 18.4	132	135	36.3	29.0	0.0*	0.0*	25-158	0.0	29.0
Chrysene	µg/L	< 14.1	132	135	41.7	32.5	31.5	24.0	17-168	24.7	30.0
Dibenz(a,h)anthracene	µg/L	< 15.8	132	135	27.1	20.3	0.0*	0.0*	10-227	0.0	28.0
Dibenzofuran	µg/L	< 13.4	132	135	37.4	27.9	0.0*	0.0*	39-114	0.0	23.0
1,2-Dichlorobenzene	µg/L	< 15.5	132	135	22.3	16.2	0.0*	0.0*	32-129	0.0	34.0
1,3-Dichlorobenzene	µg/L	< 15.3	132	135	21.7	<15.7	0.0*	0.0*	20-124	0.0	36.0

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Matrix Spike & Matrix Spike Duplicate V 92607-MS-V7150 V 92607-MSD-V7150

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	µg/L	< 15.5	132	135	20.7	<16.0	0.0*	0.0*	20-124	0.0	35.0
3,3'-Dichlorobenzidine	µg/L	< 17.4	132	135	<17.4	<17.8	0.0*	0.0*	10-262	0.0	34.0
2,4-Dichlorophenol	µg/L	< 14.6	132	135	<14.6	15.4	0.0*	0.0*	39-135	0.0	31.0
Diethyl phthalate	µg/L	< 24.6	132	135	42.0	29.8	0.0*	0.0*	10-114	0.0	22.0
Dimethyl phthalate	µg/L	< 20.6	132	135	40.0	27.5	30.3	20.3	10-112	37.0*	25.0
2,4-Dimethylphenol	µg/L	< 28.8	132	135	<28.8	<29.6	0.0*	0.0*	32-119	0.0	36.0
Di-n-butyl phthalate	µg/L	< 19.3	132	135	45.9	36.3	34.7	26.8	10-118	23.3	24.0
4,6-Dinitro-2-methylphenol	µg/L	< 26.1	132	135	<26.1	<26.8	0.0*	0.0*	10-181	0.0	35.0
2,4-Dinitrophenol	µg/L	< 28.0	132	135	<28.0	29.5	0.0*	0.0*	10-191	0.0	41.0
2,4-Dinitrotoluene	µg/L	< 13.7	132	135	42.4	28.7	32.1*	21.2*	39-139	38.5*	24.0
2,6-Dinitrotoluene	µg/L	< 15.5	132	135	41.1	29.1	0.0*	0.0*	50-158	0.0	28.0
Di-n-Octyl Phthalate	µg/L	< 13.2	132	135	45.8	36.0	34.6	26.6	10-146	23.9*	21.0
Fluoranthene	µg/L	< 15.9	132	135	43.3	34.6	32.8	25.6*	26-137	22.3	26.0
Fluorene	µg/L	< 19.1	132	135	37.9	29.2	28.7*	21.6*	59-121	25.9	30.0
Hexachlorobenzene	µg/L	< 15.1	132	135	38.5	29.5	0.0*	0.0*	10-152	0.0	29.0
Hexachlorobutadiene	µg/L	< 15.5	132	135	24.4	17.4	0.0*	0.0*	24-116	0.0	35.0
Hexachlorocyclopentadiene	µg/L	< 15.5	132	135	21.3	<16.0	0.0*	0.0*	32-117	0.0	36.0
Hexachloroethane	µg/L	< 13.7	132	135	20.1	15.0	0.0*	0.0*	40-113	0.0	37.0
Indeno(1,2,3-cd)pyrene	µg/L	< 16.3	132	135	40.8	32.2	30.9	23.8	10-171	23.5	34.0
Isophorone	µg/L	< 17.6	132	135	31.5	21.0	23.8	0.0*	21-196	15.3	27.0
Naphthalene	µg/L	< 20.7	132	135	29.2	<21.3	22.1	0.0*	21-133	7.8	35.0
Nitrobenzene	µg/L	< 20.7	132	135	31.4	23.3	23.7*	0.0*	35-180	15.0	34.0
2-Nitrophenol	µg/L	< 14.4	132	135	<14.4	<14.8	0.0*	0.0*	29-182	0.0	33.0
4-Nitrophenol	µg/L	< 7.39	132	135	15.7	24.9	0.0*	0.0*	10-132	0.0	40.0
N-Nitrosodiphenylamine	µg/L	< 28.7	132	135	33.9	<29.6	0.0*	0.0*	69-152	0.0	26.0
N-Nitroso-di-n-propylamine	µg/L	< 21.3	132	135	32.4	22.6	0.0*	0.0*	10-230	0.0	33.0

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7150 **QC Analytical Batch(es):** V7251
QC Prep Batch Method: 625.1 (Prep) **Analysis Method:** 625.1
Analysis Description: 625.1 - Base/Neutrals and Acids by GC/MS

Matrix Spike & Matrix Spike Duplicate V 92607-MS-V7150 V 92607-MSD-V7150

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Pentachlorophenol	µg/L	< 25.7	132	135	<25.7	<26.3	0.0*	0.0*	14-176	0.0	36.0
Phenanthrene	µg/L	< 16.7	132	135	41.4	31.6	31.3*	23.4*	54-120	26.8*	23.0
Phenol	µg/L	< 7.52	132	135	13.4	22.5	0.0*	0.0*	10-112	0.0	43.0
Pyrene	µg/L	< 14.3	132	135	42.7	33.0	32.3*	24.4*	52-115	25.6	31.0
1,2,4-Trichlorobenzene	µg/L	< 16.4	132	135	25.3	18.2	0.0*	0.0*	44-142	0.0	30.0
2,4,6-Trichlorophenol	µg/L	< 16.5	132	135	<16.5	<17.0	0.0*	0.0*	37-144	0.0	30.0
2-Fluorobiphenyl (S)							24.7*	18.2*	49-118		
2-Fluorophenol (S)							6.1*	11.5*	22-84		
Nitrobenzene-d5 (S)							22.4*	16.0*	43-123		
4-Terphenyl-d14 (S)							28.1*	22.7*	49-151		
2,4,6-Tribromophenol (S)							7.3*	9.4*	31-144		
Phenol-d5 (S)							6.6*	12.9	10-63		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7234
QC Prep Batch Method: MAEPH (Prep)
QC Analytical Batch(es): V7419
Analysis Method: MADEP-EPH
Analysis Description: Massachusetts EPH

Lab Reagent Blank LRB-V7234 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C9-C18	µg/L	<28.2	28.2	350	08/09/21 15:26		
Aliphatic C19-C36	µg/L	<124	124	500	08/09/21 15:26		
Aromatic C11-C22	µg/L	<61.2	61.2	250	08/09/21 15:26		
2-Fluorobiphenyl (S)					08/09/21 15:26	79.7	40-140
2-Bromonaphthalene (S)					08/09/21 15:26	57.5	40-140
Chlorooctadecane (S)					08/09/21 15:26	80.0	40-140
OTP Surrogate (S)					08/09/21 15:26	67.5	40-140

Laboratory Control Sample & LCSD LCS-V7234 LCSD-V7234

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C9-C18	µg/L	600	359	358	59.8	59.6	40-140	0.2	50.0
Aliphatic C19-C36	µg/L	800	652	621	81.5	77.6	40-140	4.8	50.0
Aromatic C11-C22	µg/L	1700	1320	1210	77.6	71.1	40-140	8.6	50.0
2-Fluorobiphenyl (S)					87.7	83.5	40-140		
2-Bromonaphthalene (S)					78.2	83.5	40-140		
Chlorooctadecane (S)					78.5	73.0	40-140		
OTP Surrogate (S)					81.5	75.0	40-140		

Quality Control Data

Client ID: Synterra Corporation - Cary
Project Description: Parcel 65
Report No: 21-211-0017

QC Prep: V7128 **QC Analytical Batch(es):** V7130
QC Prep Batch Method: MAVPH (Prep) **Analysis Method:** MADEP-VPH
Analysis Description: Massachusetts VPH

Lab Reagent Blank LRB-V7128 Matrix: AQU
Associated Lab Samples: 92706, 92707

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C5-C8	µg/L	<11.5	11.5	50.0	07/30/21 16:34		
Aliphatic C9-C12	µg/L	<25.8	25.8	50.0	07/30/21 16:34		
Aromatic C9-C10	µg/L	<4.02	4.02	50.0	07/30/21 16:34		
2,5-Dibromotoluene (FID) (S)					07/30/21 16:34	95.4	70-130
2,5-Dibromotoluene (PID) (S)					07/30/21 16:34	92.4	70-130

Laboratory Control Sample & LCSD LCS-V7128 LCSD-V7128

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C5-C8	µg/L	300	334	347	111	116	70-130	3.8	50.0
Aliphatic C9-C12	µg/L	300	325	334	108	111	70-130	2.7	50.0
Aromatic C9-C10	µg/L	100	102	104	102	104	70-130	1.9	50.0
2,5-Dibromotoluene (FID) (S)					95.7	97.2	70-130		
2,5-Dibromotoluene (PID) (S)					93.0	93.9	70-130		

Shipment Receipt Form

Customer Number: **00018**

Customer Name: **Synterra Corporation - Cary**

Report Number: **21-211-0017**

Shipping Method

<input type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<input type="text"/>
<input type="radio"/> UPS	<input type="radio"/> Client	<input checked="" type="radio"/> Courier	Thermometer ID:	<input type="text" value="IRT-15 5.1 C"/>

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

449 Springbrook Road • Charlotte, NC 28217
 Phone 704/529-6364 • Fax: 704/525-0409



CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Parcel 65 UST Project: (Yes) (No)
 Short Hold Analysis: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL III/IV) provisions and/or QC Requirements
 Invoice To: ARC@syntera.com
 Address:

Purchase Order No./Billing Reference _____
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival?	YES	NO	N/A
Received IN ICE?	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?	X		
VOLATILES rec'd W/O/H HEADSPACE?	X		
PROPER CONTAINERS used?	X		
TEMP: Therm ID: <u>50</u> C/Corr. <u>51</u> °C			

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NC SC
 Other: N/A
 Water Chlorinated: YES NO
 Samples Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSIS REQUESTED			REMARKS	ID NO.
				*TYPE SEE BELOW	NO.	SIZE		VOCS	SVOCs	VPH		
GM-1	7/28/21	1300	M	10				X	X	X		
GM-2	7/28/21	1600	W	10				X	X	X		
PRESS DOWN FIRMLY - 2 COPIES												

21-211-0017
 00018
 Synterra Corporation - Carv
 Parcel 65
 07-30-2021
 12:05:42

Sampler's Signature: Judie Sikes

Sampled By (Print Name): Julie Sikes

Affiliation: Synterra

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) Judie Sikes

Received By: (Signature) [Signature]

Date: 7/29/21 Military/Hours: 1314

Relinquished By: (Signature)

Received By: (Signature) [Signature]

Date: 7/29/21 Military/Hours: 1200

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COG Group No. 7130181

NPDES: NC SC SC SC SC SC SC
 UST: NC SC SC SC SC SC
 Groundwater: NC SC SC SC SC
 Drinking Water: NC SC SC SC
 Solid Waste: NC SC SC SC
 RCRA: NC SC SC SC
 BRWFLD: NC SC SC
 Landfill: NC SC SC
 Other: NC SC SC

*CONTAINER TYPE CODES: A = Amber G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

LAB USE ONLY

Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

UST Closure Report

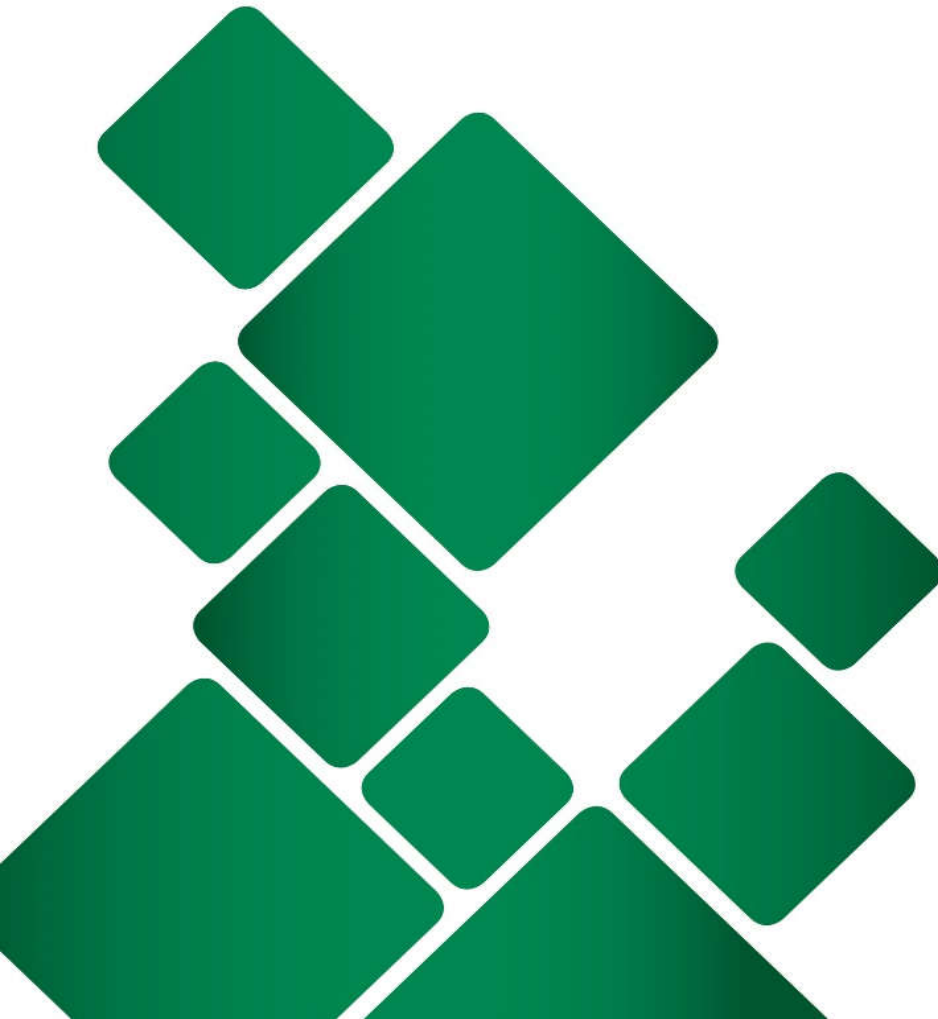
R-2511 Parcel 65

US 17 North of NC 171 to Multi-lanes South of Williamston

Beaufort County, North Carolina

APPENDIX F

PHOTOGRAPHS



Science & Engineering Consultants



1 Description: Gas station USTs, uncovered



2 Description: Gas station USTs being removed



3

Description: Degraded heating oil UST



4

Description: Gas station UST excavation after backfilling