



Prepared for

North Carolina Department of Transportation
Century Center Complex, Building B
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

PRELIMINARY SITE ASSESSMENT
PARCEL 78
NC 211 IN WEST END
4219 NC HIGHWAY 211,
MOORE COUNTY
WEST END, NORTH CAROLINA

WBS #: 50218.1.1

TIP#: R-5726

Prepared by

Geosyntec Consultants of NC, PC
2501 Blue Ridge Road, Suite 430
Raleigh, North Carolina 27607

Project Number GN7039

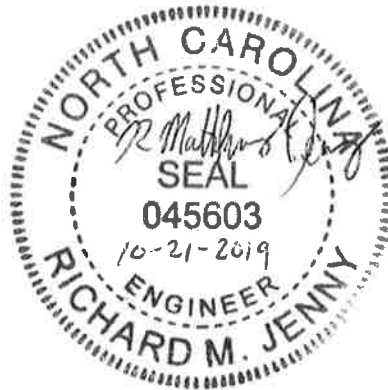
October 2019

Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019



Date: October 21, 2019
WBS Number: 50218.1.1
TIP Number: R-5726
County: Moore County
Description: Preliminary Site Assessment
Address: 4219 NC 211, West End, North Carolina 27376
Parcel ID: Parcel 78; C.S. Davis, Jr and J.B. Davis, Moore County, LLC
Author: R. Matthew Jenny, P.E.

I, R. Matthew Jenny, a Professional Engineer for Geosyntec Consultants of NC, PC do certify that the information in this report is correct and accurate to the best of my knowledge.



Not considered final until all signatures are completed

Geosyntec Consultants of NC, PC is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.

Geosyntec Consultants of NC, PC is licensed to practice geology in North Carolina. The certification number (Firm's License Number) is C-295.

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1. INTRODUCTION

1.1 Description

Geosyntec Consultants of NC, PC (Geosyntec) presents this technical report (Report) to the North Carolina Department of Transportation (NCDOT) for the Preliminary Site Assessment (PSA) of 4219 NC 211 in West End, North Carolina (the Site). The Site is associated with NCDOT TIP number R-5726, Parcel 78, and owned by C.S. Davis, Jr and J.B. Davis, Moore County, LLC. A Site location map is presented in **Figure 1**.

Geosyntec understands NCDOT would like to acquire right-of-way (ROW) and Public Utility Easements (PUEs) for road improvements along NC 211 in West End, North Carolina. The principal purpose of this PSA is to assess the possible presence of underground storage tanks (USTs) and/or above-ground storage tanks (ASTs), determine the likelihood of environmental impacts (i.e., soil and/or groundwater contamination), and make recommendations for regulatory compliance within the project study area.

This report discusses the Site history, investigative methodology, observations, sampling results, conclusions, and recommendations.

1.2 Site Background

NCDOT Parcel number 78 (Moore County Parcel number 00017283 [C.S. Davis, Jr and J.B. Davis, Moore County, LLC]) is located on 4219 NC HWY 211 in West End. **Figure 2** shows the general Site layout, including the locations of the soil borings advanced to investigate the subsurface of the Site. The property is approximately 0.34 acres and is bounded to the immediate southwest by NC 211 and to the north and east by commercial and grass land. The Site is currently a gas station and convenience store and is associated with UST facility ID 0-023256. According to the UST Section Registry, there are currently five USTs in use (three 10,000-gallon USTs; one 10,000-gallon diesel UST; and one 4,000-gallon kerosene UST). It should be noted, however, that the geophysical survey only identified four USTs on the property; the geophysical results are explained in the Results section of the report. There are no known UST incidents associated with the Site.

1.3 Scope of Work

The scope of work consisted of a historical Site desktop review, geophysical survey, and sub-surface soil investigation. The geophysical survey was performed to locate potential

metallic USTs, UST-associated product lines, non-UST metallic anomalies, and private underground utility lines within the immediate vicinity of the proposed soil boring locations. Following the geophysical survey, soil borings were advanced and soil samples were collected from each location to determine if, and to what extent, contaminated soils are present within the study area.

2. HISTORY

Geosyntec reviewed publicly accessible online environmental databases (i.e., the North Carolina Department of Environmental Quality [NCDEQ] Laserfiche database, the NCDEQ Division of Waste Management Site Locator Tool, and the NCDEQ UST Section database) to research the Site history.

2.1 Historical Aerial Photographs

The following reviews the findings from the historical aerial photographs, as provided by Google Earth® imagery:

- The earliest aerial photographs date back to 1993. The existing refueling station can be identified in the historical photos. No significant deviations at the Site were identified between 1993 and 2018.
- The Site surroundings (residential and commercial land) appear generally consistent from 1993 to 2018. Some minor land development can be identified between 1999 and present day.

2.2 Subject Site Findings

There are no known UST incidents associated with the property identified in the initial Site historical review. Further, other (i.e., non-UST) environmental incidents were not identified as part of a cursory desktop review.

Based upon the limited environmental history information, Geosyntec conducted a Site investigation inclusive of a geophysical survey and intrusive activities to screen soil and evaluate if there is contamination within the Site study area.

3. METHODS

3.1 Geophysical Investigation

The geophysical investigation was performed at the Site by Pyramid Environmental and Engineering P.C. (Pyramid) from July 29 to July 31, 2019 to locate and mark buried USTs, buried metallic drums, and/or buried utility lines within the accessible portions of the ROW/PUE extent. Generally, the tasks consisted of an electromagnetic induction-metal (EM) detection followed by ground penetrating radar (GPR) surveys.

The EM data was digitally collected at approximately 1-foot intervals along survey lines spaced approximately five feet apart. The EM unit can detect a metal drum down to a depth of approximately eight (8) to ten (10) feet. GPR scanning was conducted across selected EM metal detection anomalies, around the proposed boring locations, and across the entire ROW/PUE area along with a DitchWitch utility locator for buried utility line clearance. Additional details of the geophysical investigation methodology are provided in **Appendix A** of the report.

3.2 Sub-Surface Soil Investigation

The sub-surface investigation was conducted on August 12-15, 2019 using a direct push technology (DPT) drill rig. SAEDACCO provided the drilling services. North Carolina 811 was notified to mark utility lines within the existing ROW prior to drilling. A hand auger was used for the top three (3) to five (5) feet of each boring as an additional safety precaution.

Four (4) soil borings were completed during this investigation, each extending 10 feet below ground surface (ft bgs). Soil sampling locations were selected in areas likely to be encountered during roadway construction. Specific priority was placed at locations proximal to the existing USTs and gasoline dispensers. The soil lithology was recorded, and the soil was screened using a photo-ionization detector (PID) with a 10.6 electron-Volt lamp at approximately 6-inch intervals. Soil samples were collected from each boring at an elevation corresponding to the highest PID reading. In instances where PID readings were null, field personnel used professional judgement (e.g., odors, staining, historical Site-use information) to determine the appropriate sampling depth.

Upon DPT completion, the soil cuttings were dispersed over the Site's natural areas and/or backfilled within the boring. Boring surface completions matched pre-existing

conditions to the extent practical. Boring locations were surveyed with a global position system (GPS) unit. DPT rods were decontaminated with a Liquinox[®] cleaning solution between borings. Free product was not encountered during soil sampling, nor was other investigative derived waste (IDW) accumulated. As such, IDW drums were unnecessary.

Samples were sent off-site to Red Lab, LLC (Red Lab) and Prism Laboratories, Inc. (Prism). The samples sent to Red Lab were analyzed for Total Petroleum Hydrocarbon (TPH), gasoline-range organics (GRO), and diesel-range organics (DRO) by Ultra-Violet Fluorescence (UVF). Soil samples submitted to Prism were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B, reporting only benzene, toluene, ethylbenzene, and xylenes (BTEX). The analytical approaches are consistent with the UST Section Guidance. Samples were sent on ice under chain of custody procedures to the applicable laboratory.

4. RESULTS

4.1 Site Observations

On July 29, 2019 Geosyntec performed an initial Site walk with Pyramid prior to conducting work. The Site is an operating gas station with significant vehicular traffic. Soil boring locations were selected in locations that met project objectives while simultaneously accounting for health and safety. **Appendix B** provides a photographic log of the field observations.

4.2 Geophysical Investigation Results

The geophysical survey was performed to locate and mark buried USTs, buried metallic drums, and/or buried utility lines within the ROW/PUE extent using both EM and GPR approaches.

Pyramid identified four active USTs at the property, beyond the proposed PUE/ROW extent. GPR was performed across the four known USTs to verify their properties. The dimensions of the USTs are approximated as follows (UST IDs are arbitrarily labeled per Pyramid):

- UST #1 is approximately 32 feet long and 9.5 feet wide;
- UST #2 is approximately 31.5 feet long and 9.5 feet wide;
- UST #3 is approximately 31.5 feet long and 9.5 feet wide;
- UST #4 is approximately 31 feet long and 8.5 feet wide.

GPR results did not identify additional buried structures within the survey area. Collectively, the geophysical data showed four existing metallic USTs within the property (outside the ROW/PUE extent). Pyramid's geophysical report is provided in **Appendix A**.

4.3 Sub-Surface Investigation Results

4.3.1 Field Sampling Observations and PID Results

Following the geophysical survey, the sub-surface investigation was performed to determine if, and to what extent, contaminated soils are present within the study area. Four (4) soil borings were completed during this investigation, each extending 10 ft bgs.

PID soil screening values were minimal (less than 1 part per million [ppm]) throughout the entirety of each soil boring. The soil lithology generally consisted of top soil in the first three (3) ft bgs followed by sandy clay with some gravel. Groundwater was not encountered. Soil sampling locations are shown on **Figure 2** and GPS coordinates are recorded on **Table 1**. The boring logs are provided in **Appendix C**.

4.3.2 Soil and Groundwater Sampling Analytical Results

Four (4) soil samples were collected as part of the intrusive investigation and analyzed for TPH by UVF and VOCs by EPA Method 8260B. The TPH analytical data was screened against the TPH DRO and TPH GRO values established in the UST Section Guidance. The benzo(a)pyrene and BTEX analytical data were compared to the NCDEQ UST Section Maximum Soil Contaminant Concentrations (MSCCs).

The UVF fingerprinting data do not indicate soil screening level exceedances for the constituents analyzed. DRO was detected in the SB78-04 soil sample. No results exceeded the screening values. **Table 2** shows the TPH analytical results.

VOC analytical data was screened against the NCDEQ UST Section MSCCs. No detections were reported. The VOC analytical results are shown in **Table 3**.

The UVF analytical report, including the fingerprint matching data, is provided in **Appendix D**; the Prism analytical report is provided in **Appendix E**¹. **Figure 3** displays the soil boring locations using a preliminary roadway design drawing base map.

¹The Prism Laboratory report includes analytical results for samples collected from other parcels associated with NCDOT project R-5726

5. SUMMARY

From August 12-15, 2019 Geosyntec completed an environmental PSA to determine the likelihood of contamination within the proposed acquisition area on the property located at 4219 NC 211 in West End (NCDOT Parcel 78). The property is owned by C.S. Davis, Jr and J.B. Davis Moore County, LLC. The following summarizes the findings of this PSA.

Following a cursory desktop Site review, no environmental incidents associated with the Site were identified. A geophysical survey and intrusive soil investigation were performed as part of this scope of work. Pyramid identified four existing USTs on the northern side of the property. The USTs are approximately 31-32 feet long and 8.5-9.5 feet wide. The NCDEQ UST Section Registry indicates a fifth UST registered to the property, presumably a 4,000-gallon kerosene UST. A fifth UST was not identified as part of this scope of work. Nonetheless, the USTs identified are located outside of the proposed PUE and are buried approximately 2 ft bgs. Four (4) soil borings were advanced within the PUE boundary to investigate the environmental impacts on the property, including one soil boring at the immediate south of the four USTs. Petroleum impacts to Site soils were not identified during field screening or as part of analytical testing. Groundwater was not encountered.

The work performed herein did not identify petroleum impacts in shallow soils within the Site study area. Geosyntec anticipates a low likelihood of encountering shallow soil impacts within the proposed PUE extent. Geosyntec recommends excavating and properly disposing of the four USTs and their contents to facilitate roadway completion.

*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



TABLES

Table 1
Soil Boring Coordinates
4219 NC 211, West End, North Carolina 27376
NCDOT Parcel 78
TIP: R-5726
WBS: 50218.1.1

Soil Boring ID	Longitude	Latitude
SB78-01-7.0-7.5	-79.587486	35.265459
SB78-02-5.5-6.0	-79.587427	35.265377
SB78-03-6.0-6.5	-79.587335	35.265286
SB78-04-6.5-7.0	-79.587232	35.265236

Note:

- 1) Coordinate datum reference: WGS 1984.

Table 2
Soil Analytical Results - TPH by UVF
4219 NC 211, West End, North Carolina 27376
NCDOT Parcel 78
TIP: R-5726
WBS: 50218.1.1

Analyte			BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	Benzo[a]pyrene
Units			mg/kg						
UST TPH Guidance			---	50	100	---	---	---	---
Soil-to-Water MSCCs			---	---	---	---	---	---	0.096
Residential Soil MSCCs			---	---	---	---	---	---	0.088
Commercial / Industrial MSCCs			---	---	---	---	---	---	0.78
Sample ID	Sample Depth (ft bgs)	Sample Date							
SB78-01-7.0-7.5	7.0-7.5	8/14/2019	<0.29	<0.29	<0.29	<0.29	<0.06	<0.09	<0.012
SB78-02-5.5-6.0	5.5-6.0	8/14/2019	<0.55	<0.55	<0.55	<0.55	<0.11	<0.17	<0.022
SB78-03-6.0-6.5	6.0-6.5	8/14/2019	<0.69	<0.69	<0.69	<0.69	<0.14	<0.22	<0.028
SB78-04-6.5-7.0	6.5-7.0	8/14/2019	<0.33	<0.33	1.9	1.9	<0.07	<0.1	<0.013

Notes:

- (1) mg/kg indicates milligrams per kilogram.
- (2) NCDEQ UST Guidance references the 26 July 2016 Guidelines for North Carolina Action Limits for Total Petroleum Hydrocarbons (TPH).
- (3) MSCC indicates North Carolina Department of Environmental Quality (NCDEQ) Underground Storage Tank (UST) Section Maximum Contaminant Concentration Levels, updated November 2016.
- (4) < indicates analyte was not detected above the laboratory method detection limit (MDL).
- (5) Detections are identified in bold.
- (6) --- indicates screening criteria not established.
- (7) UVF indicates ultraviolet fluorescence.
- (8) TPH indicates total petroleum hydrocarbons.
- (9) GRO indicates gasoline range organics.
- (10) DRO indicates diesel range organics.
- (11) PAH indicates polycyclic aromatic hydrocarbon.
- (12) BTEX indicates benzene, toluene, ethylbenzene, and xylenes.
- (13) ft. bgs indicates feet below ground surface.

Table 3
Soil Sampling Analytical Summary - VOCs
4219 NC 211, West End, North Carolina 27376
NCDOT Parcel 78
TIP: R-5726
WBS: 50218.1.1

Analyte	NCDEQ Residential Soil Cleanup Levels MSCC	NCDEQ Industrial/ Commercial Soil Cleanup Levels MSCC	NCDEQ Soil-to-Water Maximum Contaminant MSCC	Sample ID	SB78-01	SB78-02	SB78-03	SB78-04
				Sample Date	8/13/2019	8/14/2019	8/14/2019	8/14/2019
				Sample Depth (ft. bgs)	7.0-7.5	5.5-6.0	6.0-6.5	6.5-7.0
				Sample Type	Grab			
				Units	mg/kg			
<i>Volatile Organic Compounds (VOCs) by EPA Method 8260B</i>								
Benzene	18	164	0.0056	mg/kg	< 0.0053	< 0.0043	< 0.0068	< 0.0062
Ethylbenzene	1,560	40,000	4.9	mg/kg	< 0.0053	< 0.0043	< 0.0068	< 0.0062
m,p-Xylenes	3,129	81,760	4.6	mg/kg	< 0.011	< 0.0086	< 0.014	< 0.012
o-Xylene	3,129	81,760	4.6	mg/kg	< 0.0053	< 0.0043	< 0.0068	< 0.0062
Toluene	1,200	32,000	4.3	mg/kg	< 0.0053	< 0.0043	< 0.0068	< 0.0062
Xylene (total)	3,129	81,760	4.6	mg/kg	< 0.016	< 0.013	< 0.020	< 0.019

Notes:

(1) North Carolina Department of Environmental Quality (NCDEQ) Underground Storage Tank (UST) Section Maximum Soil Contaminant Concentrations (MSCCs) as indicated in the NCDEQ UST Section *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases*, amended April 2012.

(2) VOC indicates volatile organic compound.

(3) mg/kg indicates milligrams per kilogram.

(4) Concentrations exceeding MSCCs are highlighted as shown:

Residential	Industrial	Soil-to-Water
--------------------	-------------------	----------------------

(5) ft bgs indicated feet below ground surface.

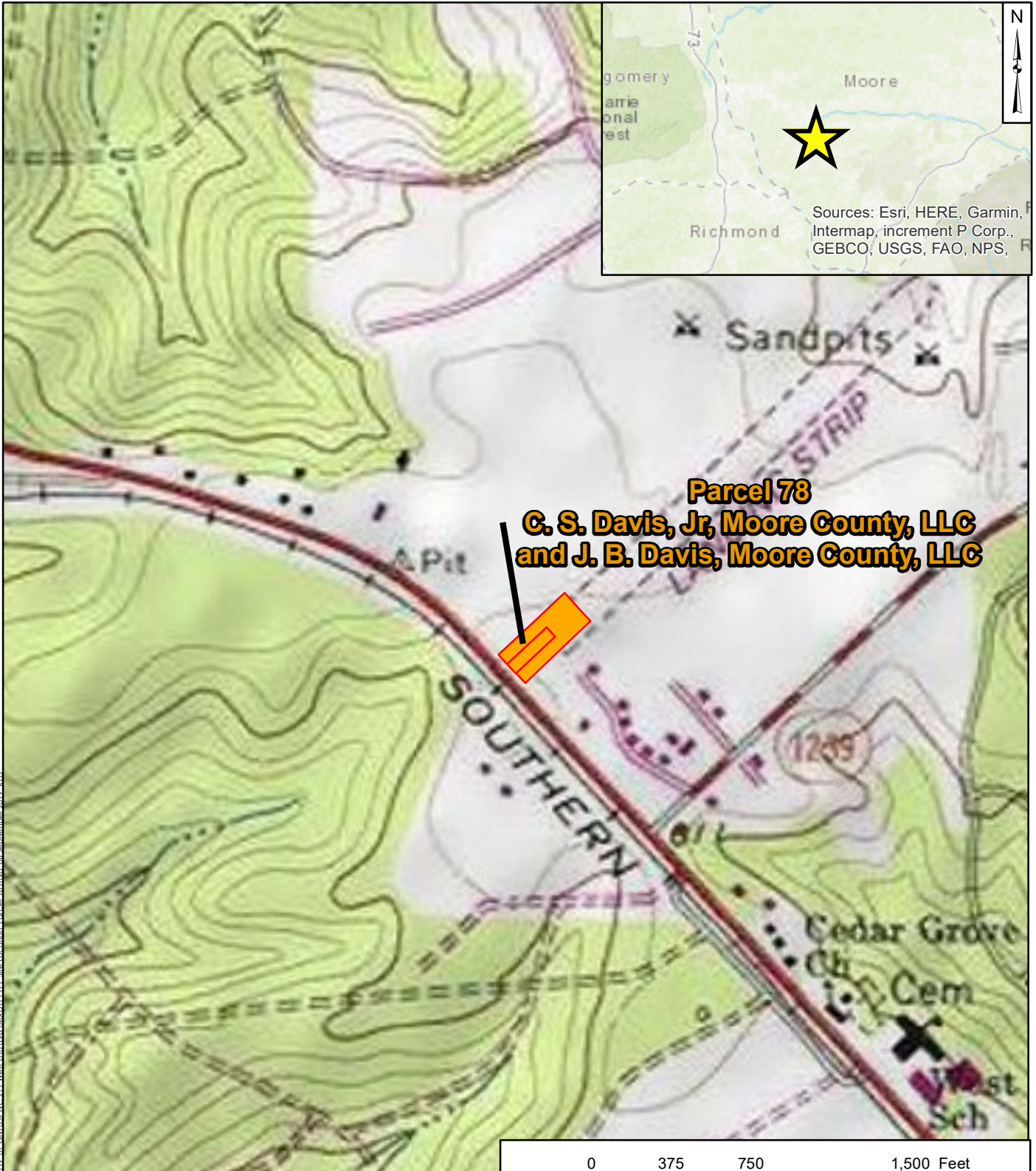
(6) < indicates analyte was not detected above the laboratory reporting limit (RL).

(7) Only benzene, toluene, ethylbenzene, xylenes (BTEX) were reported.

*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*





FIGURES

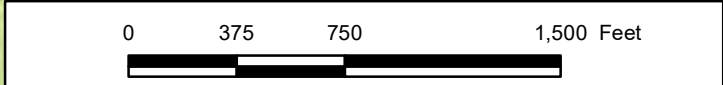


Parcel 78
C. S. Davis, Jr, Moore County, LLC
and J. B. Davis, Moore County, LLC

Legend

-  Site Location
-  NCDOT Moore County Parcel

Notes:
 1. Aerial imagery provided by ArcMap10.5, ESRI



Site Location
 4219 NC-211 (NCDOT Parcel 78)
 West End, Moore County, North Carolina
 WBS: 50218.1.1
 TIP: R-5726

Geosyntec
 Consultants of NC, PC
 NC License No.: C-3500

Figure
1

Raleigh, NC

October 2019

Path: \\geosyntec\01\MapData\NCDOT\B-5726\West End Moore County\2019_07\GIS\2019_NC-211_West End\GSR\AMXD\FINAL_Site_Location_Parcel_78.mxd, 04 September 2019, 8:02



Path: \\Raleigh\01\Data\GIS\NCDOT\18-576 West End Moore County\2019_07\G17039\NCDOT\18-576 West End Moore County\FE_Parcel 78.mxd, 29 August 2019, RED

Legend

- Soil Boring Locations
- - - Approximate PUE Extent
- Existing USTs
- NCDOT Moore County Parcel



Site Layout
 C. S. Davis, Jr, Moore County, LLC and J. B. Davis, Moore County, LLC
 4219 NC-211 (NCDOT Parcel 78)
 West End, Moore County, North Carolina
 TIP: R-5726
 WBS: 50218.1.1

Notes:

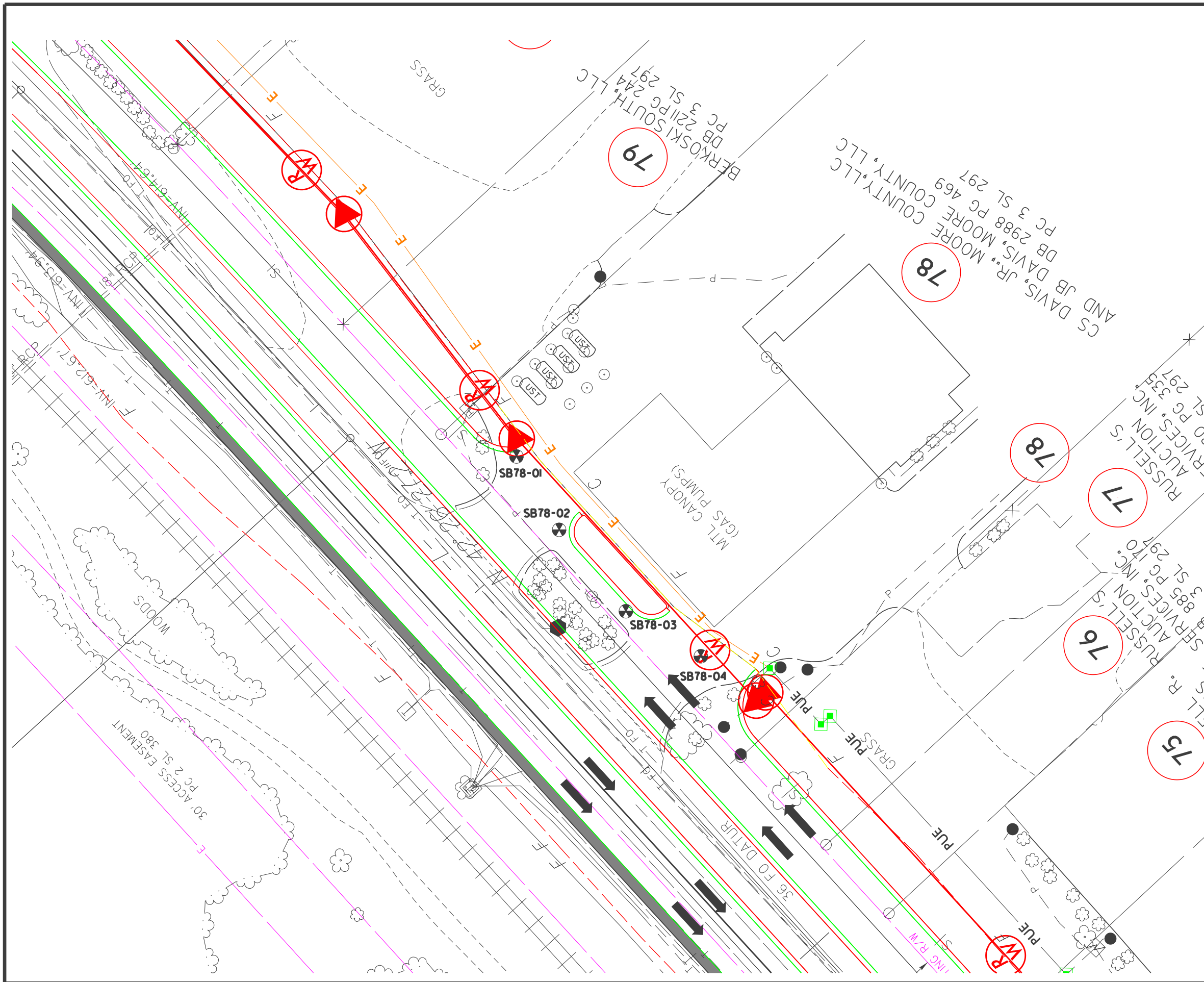
1. Property boundary provided by Moore County, North Carolina GIS.
2. Aerial imagery provided by ArcMap10.5, ESRI
3. PUE indicates Public Utility Easement.
4. Soil boring locations are approximated by GPS; locations were not surveyed by a licensed surveyor.

Geosyntec
 Consultants of NC, PC
 NC License No.: C-3500

Raleigh, NC October 2019

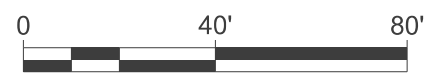
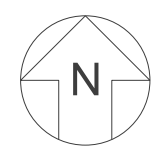
Figure

2



LEGEND	
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED PERMANENT DRAINAGE
	PROPOSED SS CUT LINE
	PROPOSED SS FILL LINE
	TEMPORARY CONSTRUCTION EASEMENT
	GEOENVIRONMENTAL BORING
	UNDERGROUND STORAGE TANK

- NOTES:**
1. **PSA PERFORMED IN THE PROPOSED ROW/PUE ONLY.**
 2. **CONSTITUENTS ANALYZED WERE NOT DETECTED ABOVE APPLICABLE NCDEO UST SECTION SCREENING CRITERION.**



NCDOT PARCEL 78 SOIL BORING LOCATIONS 4219 HIGHWAY NC-211 WEST END, MOORE COUNTY, NORTH CAROLINA WBS: 50218.1.1 TIP: R-5726	
 consultants of NC, PC NC License No: C-3500	FIGURE 3
PROJECT NO: GN7039	OCTOBER 2019

*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



APPENDIX A

Geophysical Investigation Report



PYRAMID GEOPHYSICAL SERVICES
(PROJECT 2019-233)

GEOPHYSICAL SURVEY

METALLIC UST INVESTIGATION: PARCEL 78 NCDOT PROJECT R-5726 (50218.1.1)

4219 N.C. 211, WEST END, NC

August 23, 2019

Report prepared for: Mr. Matt Jenny, P.E.
Geosyntec Consultants of NC, PC
2501 Blue Ridge Road, Suite 430
Raleigh, NC 27607

Prepared by: _____

Eric C. Cross, P.G.
NC License #2181

Reviewed by: _____

Douglas A. Canavello, P.G.
NC License #1066

503 INDUSTRIAL AVENUE, GREENSBORO, NC 27406

P: 336.335.3174 F: 336.691.0648

C257: GEOLOGY C1251: ENGINEERING

GEOPHYSICAL INVESTIGATION REPORT
Parcel 78 - 4219 N.C. 211
West End, Moore County, North Carolina

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- Figure 3 – Parcel 78 - GPR Transect Locations and Images
- Figure 4 – Parcel 78 - Locations and Sizes of Four Known USTs
- Figure 5 – Overlay of Metal Detection Results and Four Known USTs onto NCDOT Engineering Plans

LIST OF ACRONYMS

CADD	Computer Assisted Drafting and Design
DF	Dual Frequency
EM.....	Electromagnetic
GPR.....	Ground Penetrating Radar
GPS	Global Positioning System
NCDOT.....	North Carolina Department of Transportation
ROW	Right-of-Way
UST	Underground Storage Tank

EXECUTIVE SUMMARY

Project Description: Pyramid Environmental conducted a geophysical investigation for Geosyntec Consultants of NC, PC at Parcel 78, located at 4219 N.C. 211 in West End, NC. The survey was part of an NCDOT Right-of-Way (ROW) investigation (NCDOT Project R-5726). The survey was designed to extend from the existing edge of pavement into the proposed ROW and/or easements, whichever distance was greater. Conducted from July 29-31, 2019, the geophysical investigation was performed to determine if unknown, metallic underground storage tanks (USTs) were present beneath the survey area.

Geophysical Results: The geophysical investigation consisted of electromagnetic (EM) induction-metal detection and ground penetrating radar (GPR) surveys. Four known USTs were observed at the property, evidenced by visible fill ports and concrete adjacent to a pump island. A total of four EM anomalies were identified. The majority of the EM anomalies were directly attributed to visible cultural features at the ground surface. GPR was performed across the four known USTs to verify their sizes and orientations. From southwest to northeast:

- UST #1 was approximately 32 feet long and 9.5 feet wide
- UST #2 was approximately 31.5 feet long and 9.5 feet wide
- UST #3 was approximately 31.5 feet long and 9.5 feet wide
- UST #4 was approximately 31 feet long and 8.5 feet wide.

The remaining GPR transects verified the presence of metal reinforcement within the suspected areas of concrete. No evidence of additional buried structures such as USTs was observed. Collectively, the geophysical data recorded evidence of four known metallic USTs at Parcel 78.

INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Geosyntec Consultants of NC, PC at Parcel 78, located at 4219 N.C. 211 in West End, NC. The survey was part of an NCDOT Right-of-Way (ROW) investigation (NCDOT Project R-5726). The survey was designed to extend from the existing edge of pavement into the proposed ROW and/or easements, whichever distance was greater. Conducted from July 29-31, 2019, the geophysical investigation was performed to determine if unknown, metallic underground storage tanks (USTs) were present beneath the survey area.

The site included an active service station surrounded by grass and concrete surfaces. Four known USTs were evidenced by visible fill ports and concrete to the northwest of the pump island. An aerial photograph showing the survey area boundaries and ground-level photographs are shown in **Figure 1**.

FIELD METHODOLOGY

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection and ground penetrating radar (GPR) surveys. Pyramid collected the EM data using a Geonics EM61-MK2 (EM61) metal detector integrated with a Geode External GPS/GLONASS receiver. The integrated GPS system allows the location of the instrument to be recorded in real-time during data collection, resulting in an EM data set that is geo-referenced and can be overlain on aerial photographs and CADD drawings. A boundary grid was established around the perimeter of the site with marks every 10 feet to maintain orientation of the instrument throughout the survey and assure complete coverage of the area.

According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. The EM61 data were digitally collected at approximately 0.8-foot intervals along north-south trending or east-west trending,

generally parallel survey lines, spaced five feet apart. The data were downloaded to a computer and reviewed in the field and office using the Geonics NAV61 and Surfer for Windows Version 15.0 software programs.

GPR data were acquired across select EM anomalies on July 31, 2019, using a Geophysical Survey Systems, Inc. (GSSI) SIR 4000 controller coupled to a 350 MHz HS antenna. Data were collected both in reconnaissance fashion as well as along formal transect lines across EM features. The GPR data were viewed in real-time using a vertical scan of 512 samples, at a rate of 48 scans per second. GPR data were viewed down to a maximum depth of approximately 6 feet, based on dielectric constants calculated by the DF unit in the field during the reconnaissance scans. GPR transects across specific anomalies were saved to the hard drive of the DF unit for post-processing and figure generation.

Pyramid’s classifications of USTs for the purposes of this report are based directly on the geophysical UST ratings provided by the NCDOT. These ratings are as follows:

Geophysical Surveys for Underground Storage Tanks on NCDOT Projects			
High Confidence	Intermediate Confidence	Low Confidence	No Confidence
Known UST Active tank - spatial location, orientation, and approximate depth determined by geophysics.	Probable UST Sufficient geophysical data from both magnetic and radar surveys that is characteristic of a tank. Interpretation may be supported by physical evidence such as fill/vent pipe, metal cover plate, asphalt/concrete patch, etc.	Possible UST Sufficient geophysical data from either magnetic or radar surveys that is characteristic of a tank. Additional data is not sufficient enough to confirm or deny the presence of a UST.	Anomaly noted but not characteristic of a UST. Should be noted in the text and may be called out in the figures at the geophysicist’s discretion.

DISCUSSION OF RESULTS

Discussion of EM Results

A contour plot of the EM61 results obtained across the survey area at the property is presented in **Figure 2**. Each EM anomaly is numbered for reference in the figure. The following table presents the list of EM anomalies and the cause of the metallic response, if known:

LIST OF METALLIC ANOMALIES IDENTIFIED BY EM SURVEY

Metallic Anomaly #	Cause of Anomaly	Investigated with GPR
1	Sign	
2	Four Known USTs	✓
3	Reinforced Concrete	✓
4	Lights/Surface Metal	

The majority of the EM anomalies were directly attributed to visible cultural features at the ground surface, including signs, suspected reinforced concrete, lights and surface metal. EM Anomaly 2 was associated with the four known USTs and was investigated further with GPR to verify their sizes and orientations. GPR was also performed across the suspected reinforced concrete to verify the presence of metal reinforcement and confirm that no significant structures such as USTs were present beneath the reinforcement.

Discussion of GPR Results

Figure 3 presents the locations of the formal GPR transects performed at the property as well as select transect images. All of the GPR transects are included in **Appendix A**. A total of twenty-one GPR transects were performed at the property. GPR Transect 1 was performed across the widths of the four known USTs, and reconnaissance radar verified their lengths. From southwest to northeast: UST #1 was approximately 32 feet long and 9.5 feet wide, UST #2 was approximately 31.5 feet long and 9.5 feet wide, UST #3 was approximately 31.5 feet long and 9.5 feet wide, and UST #4 was approximately 31 feet long and 8.5 feet wide. Based on the combination of geophysical evidence and field observations, these four tanks are classified as four known USTs. **Figure 4** provides the locations and sizes of the four known USTs overlain on an aerial photograph as well as a ground-level photograph.

The remaining GPR transects verified the presence of metal reinforcement within the suspected areas of concrete. No evidence of additional buried structures such as USTs was observed.

Figure 5 provides an overlay of the metal detection results and the four known USTs onto the NCDOT Engineering plans.

Collectively, the geophysical data recorded evidence of four known metallic USTs at Parcel 78.

SUMMARY & CONCLUSIONS

Pyramid's evaluation of the EM61 and GPR data collected at Parcel 78 in West End, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the accessible portions of the geophysical survey area.
- Four known USTs were observed at the property, evidenced by visible fill ports and concrete adjacent to a pump island.
- The majority of the EM anomalies were directly attributed to visible cultural features at the ground surface.
- GPR was performed across the four known USTs to verify their sizes and orientations. From southwest to northeast:
 - UST #1 was approximately 32 feet long and 9.5 feet wide
 - UST #2 was approximately 31.5 feet long and 9.5 feet wide
 - UST #3 was approximately 31.5 feet long and 9.5 feet wide
 - UST #4 was approximately 31 feet long and 8.5 feet wide.
- The remaining GPR transects verified the presence of metal reinforcement within the suspected areas of concrete. No evidence of additional buried structures such as USTs was observed.
- Collectively, the geophysical data recorded evidence of four known metallic USTs at Parcel 78.

LIMITATIONS

Geophysical surveys have been performed and this report was prepared for Geosyntec Consultants of NC, PC in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR surveys are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project have not conclusively determined the definitive presence or absence of metallic USTs, but the evidence collected is sufficient to result in the conclusions made in this report. Additionally, it should be understood that areas containing extensive vegetation, reinforced concrete, or other restrictions to the accessibility of the geophysical instruments could not be fully investigated.

APPROXIMATE BOUNDARIES OF GEOPHYSICAL SURVEY AREA



View of Survey Area
(Facing Approximately North)



View of Survey Area
(Facing Approximately South)



503 INDUSTRIAL AVENUE
GREENSBORO, NC 27406
(336) 335-3174 (p) (336) 691-0648 (f)
License # C1251 Eng. / License # C257 Geology

PROJECT
PARCEL 78
WEST END, NORTH CAROLINA
NCDOT PROJECT R-5726

TITLE
**PARCEL 78 - GEOPHYSICAL
SURVEY BOUNDARIES AND SITE PHOTOGRAPHS**

DATE
8/8/2019
PYRAMID
PROJECT #:
2019-233

CLIENT
GEOSYNTEC
FIGURE 1

EM61 METAL DETECTION RESULTS



**EVIDENCE OF FOUR KNOWN USTs WAS OBSERVED.
NO EVIDENCE OF UNKNOWN METALLIC USTs WAS OBSERVED**

The contour plot shows the differential results of the EM61 instrument in millivolts (mV). The differential results focus on larger metallic objects such as USTs and drums. The EM data were collected on July 29, 2019, using a Geonics EM61-MK2 instrument. Verification GPR data were collected using a GSSI SIR 4000 controller with a 350 MHz HS antenna on July 31, 2019.

EM61 Metal Detection Response (millivolts)



503 INDUSTRIAL AVENUE
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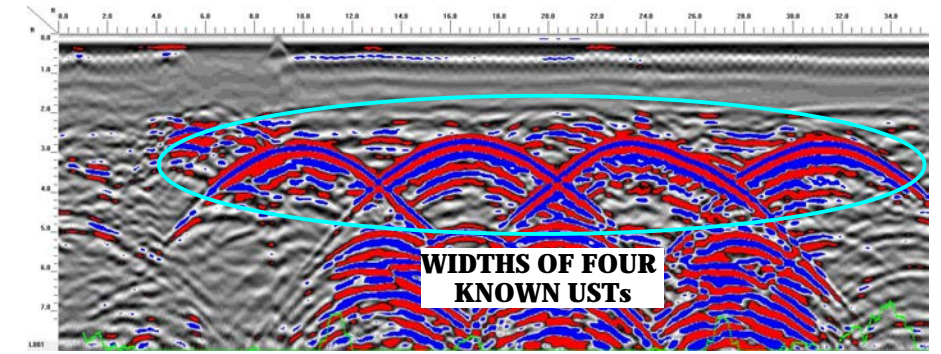
PROJECT
PARCEL 78
WEST END, NORTH CAROLINA
NCDOT PROJECT R-5726

TITLE
PARCEL 78 -
EM61 METAL DETECTION CONTOUR MAP

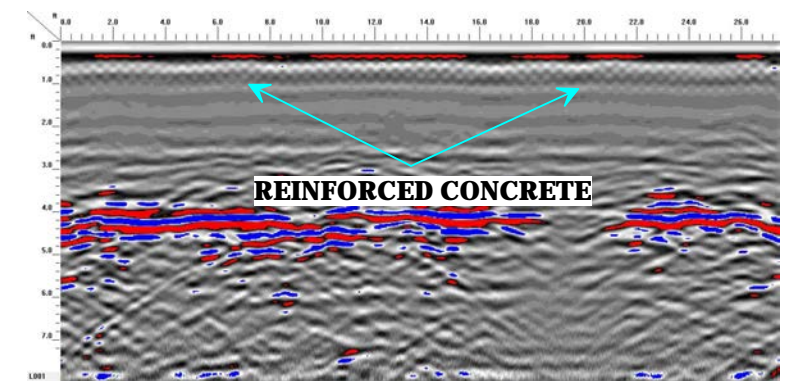
DATE
8/8/2019
PYRAMID PROJECT #:
2019-233

CLIENT
GEOSYNTEC
FIGURE 2

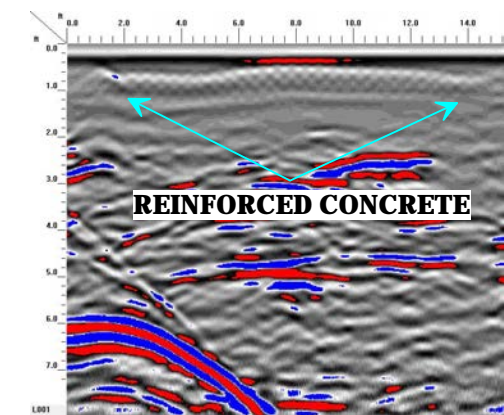
LOCATIONS OF GPR TRANSECTS



GPR TRANSECT 1 (T1)



GPR TRANSECT 8 (T8)



GPR TRANSECT 21 (T21)



503 INDUSTRIAL AVENUE
GREENSBORO, NC 27406
(336) 335-3174 (p) (336) 691-0648 (f)
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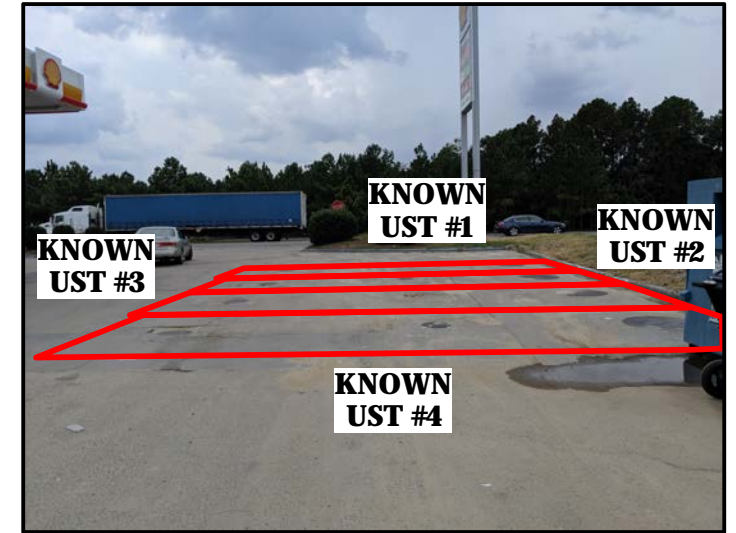
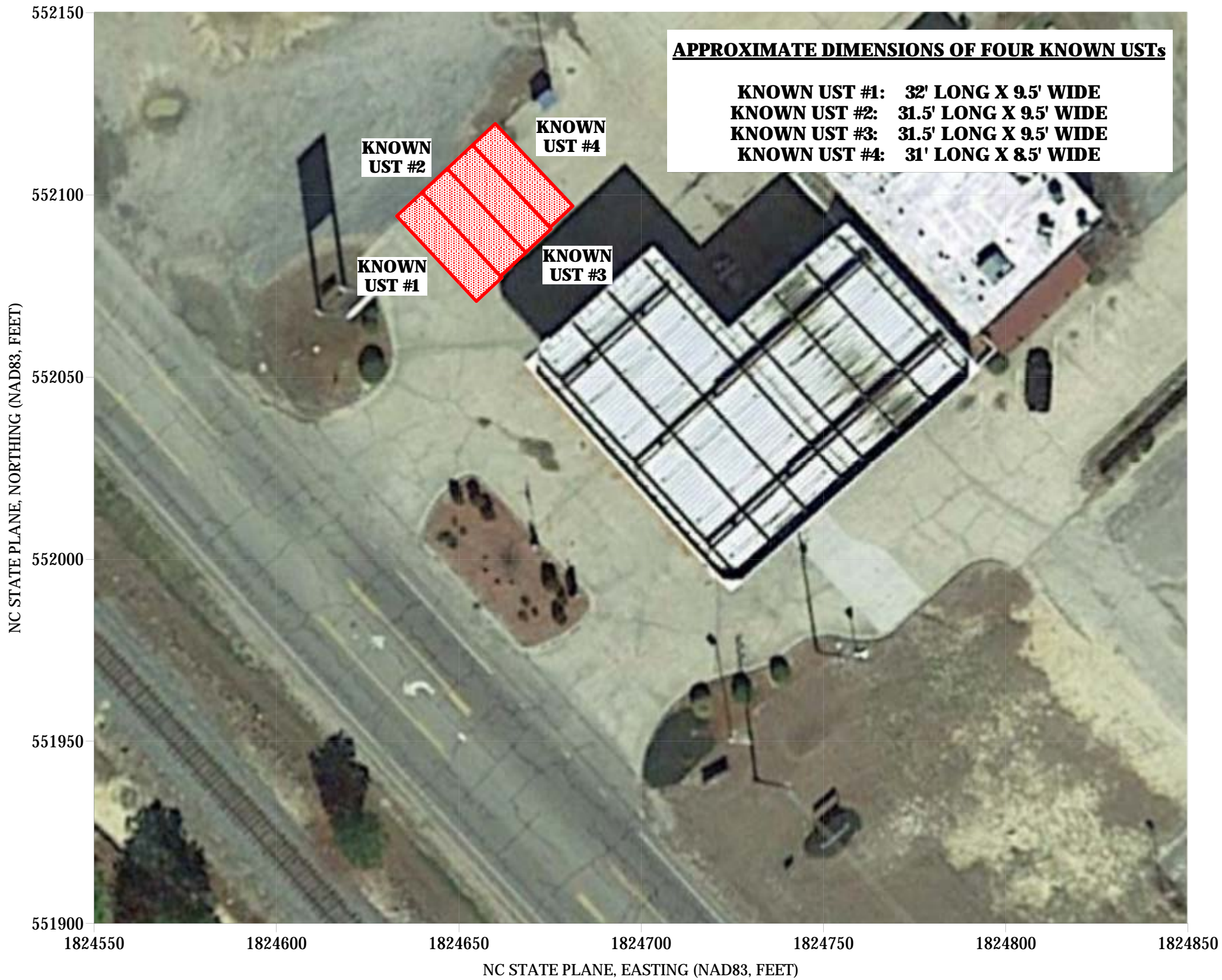
PROJECT
PARCEL 78
WEST END, NORTH CAROLINA
NCDOT PROJECT R-5726

TITLE
PARCEL 78 -
GPR TRANSECT LOCATIONS
AND SELECT IMAGES

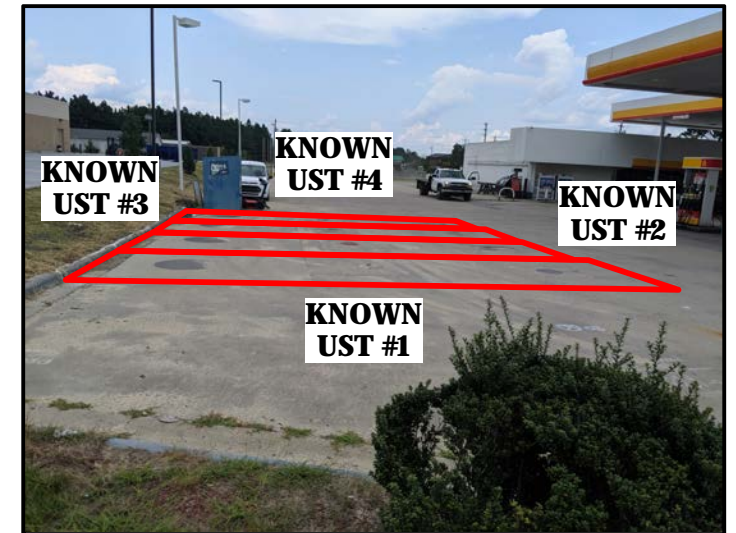
DATE
8/8/2019
PYRAMID PROJECT #:
2019-233

CLIENT
GEOSYNTEC
FIGURE 3

LOCATIONS OF FOUR KNOWN USTs



View of Four Known USTs
Facing Approximately South



View of Four Known USTs
Facing Approximately North



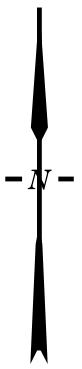
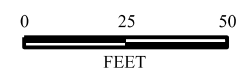
	503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 (336) 335-3174 (p) (336) 691-0648 (f) License # C1251 Eng. / License # C257 Geology	PROJECT PARCEL 78 WEST END, NORTH CAROLINA NCDOT PROJECT R-5726	TITLE PARCEL 78 - LOCATIONS AND SIZES OF FOUR KNOWN USTs	DATE	8/8/2019	CLIENT	GEOSYNTEC
				PYRAMID PROJECT #:	2019-233	FIGURE 4	



LEGEND

- EXISTING ROW
- EXISTING PROPERTY BOUNDARY
- PROPOSED ROW LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED PERMANENT DRAINAGE
- PROPOSED SS CUT LINE
- PROPOSED SS FILL LINE
- KNOWN UST

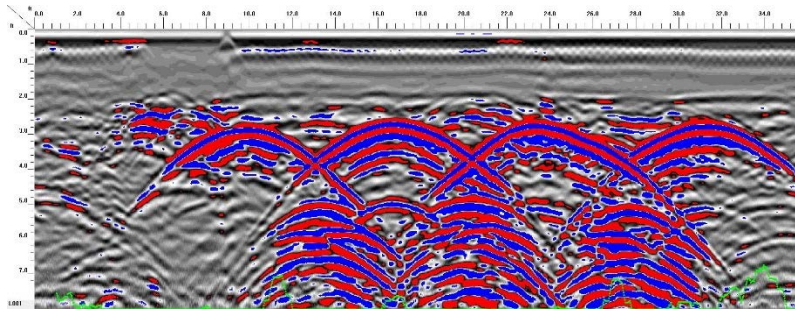
MILLIVOLTS (mV)



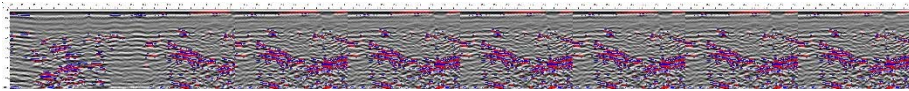
TITLE	OVERLAY OF METAL DETECTION RESULTS AND FOUR KNOWN USTs ON NCDOT ENGINEERING PLANS	
PROJECT	PARCEL 78 WEST END, NORTH CAROLINA NCDOT PROJECT R-5726	
	503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 336.335.3174 (p) 336.691.0648 (f) License # C1251 Eng. / #C257 Geology	
DATE: 08-20-2019	REVISION NO. 0	
PYRAMID PROJECT NO. 2019-233	FIGURE NO. 5	

BASIN
 OF 5.2' A
 FT 1.985'
 FT 1.34'
 FT 1.45'
 FT 1.73'
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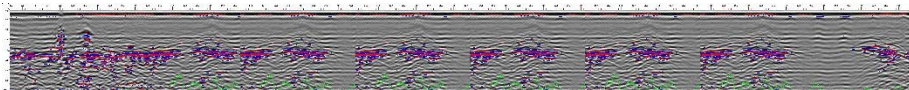
Appendix A – GPR Transect Images



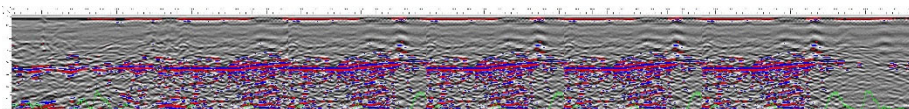
GPR TRANSECT 1



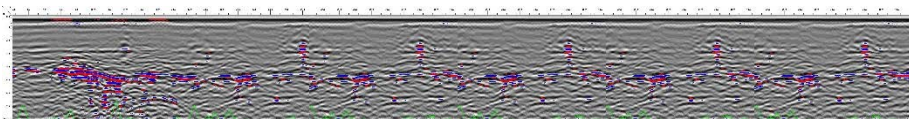
GPR TRANSECT 2



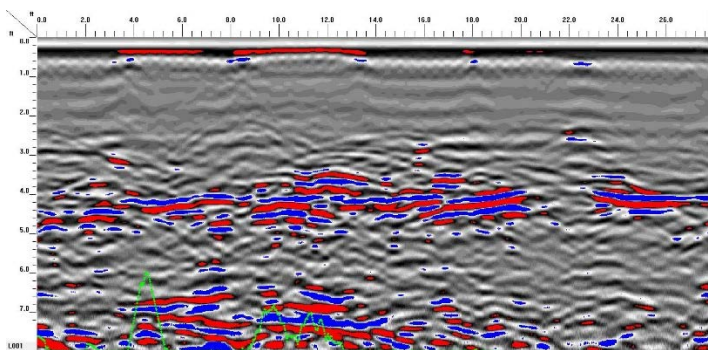
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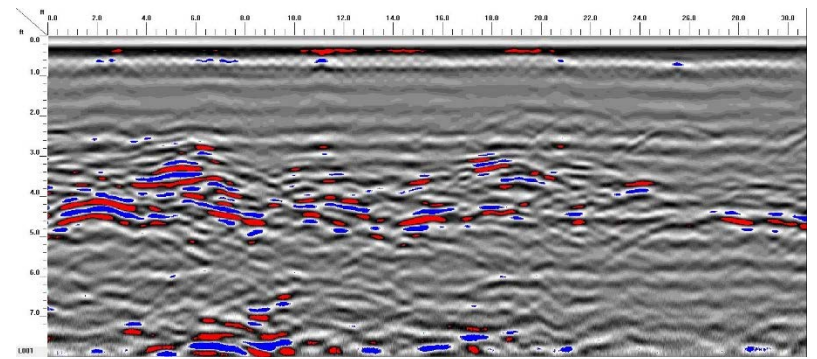
GPR TRANSECT 4



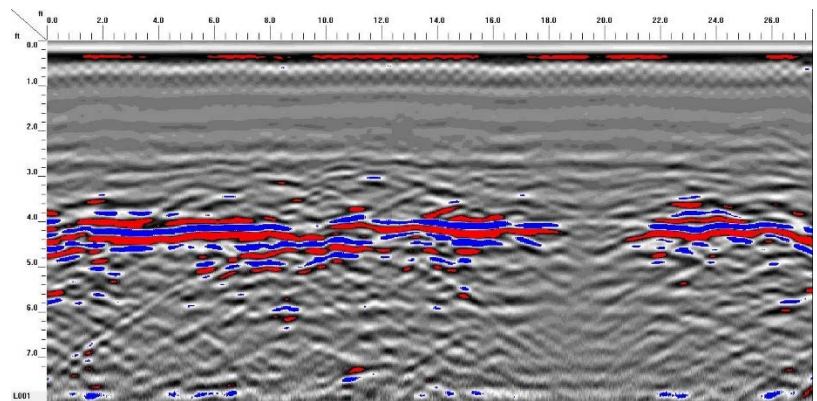
GPR TRANSECT 5



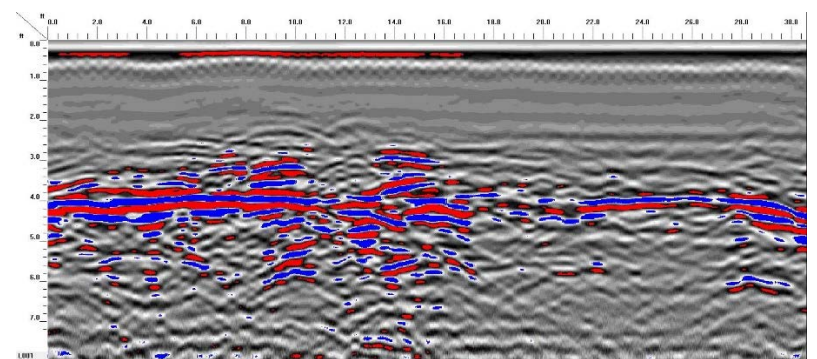
GPR TRANSECT 6



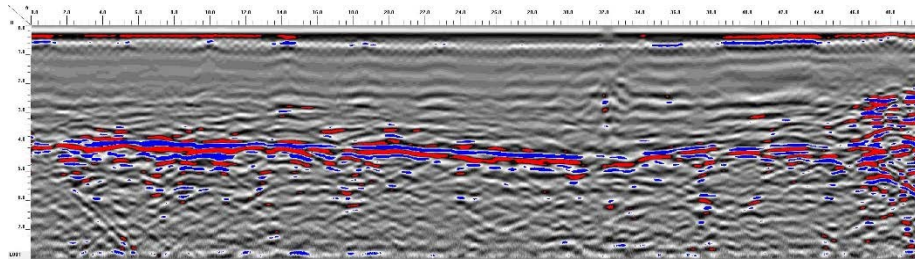
GPR TRANSECT 7



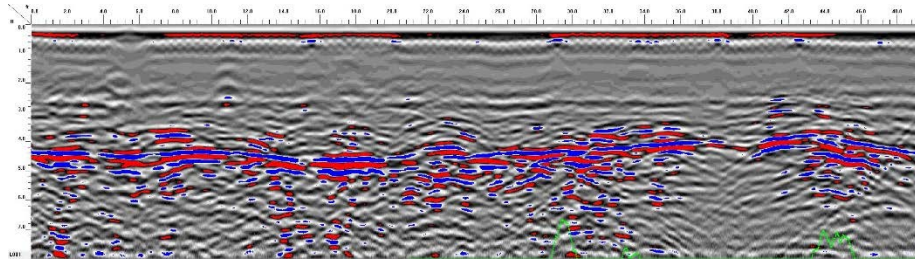
GPR TRANSECT 8



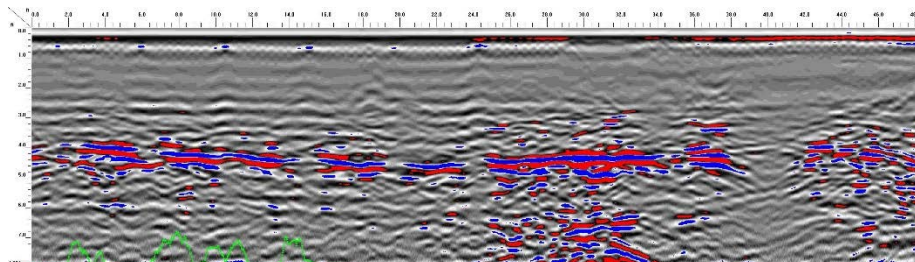
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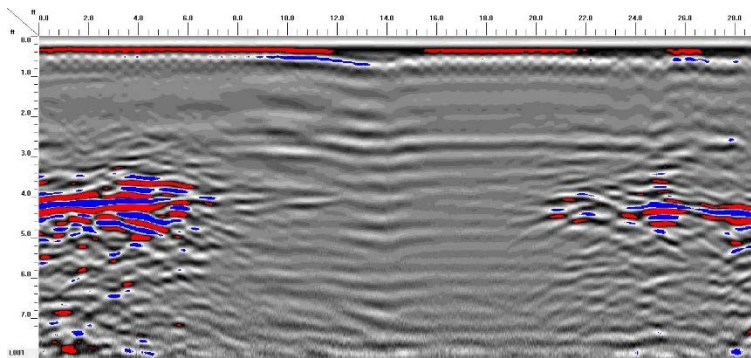
GPR TRANSECT 10



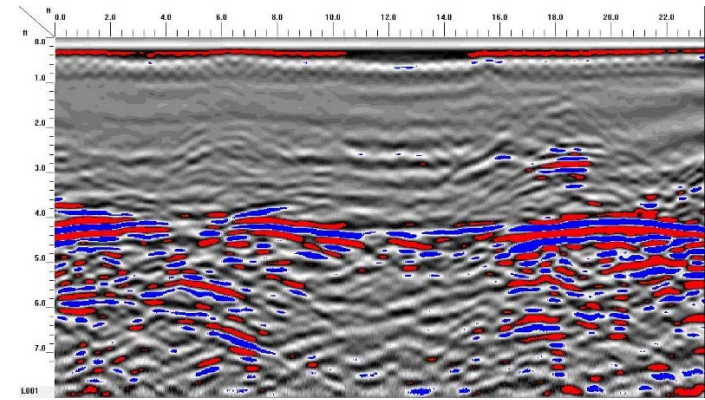
GPR TRANSECT 11



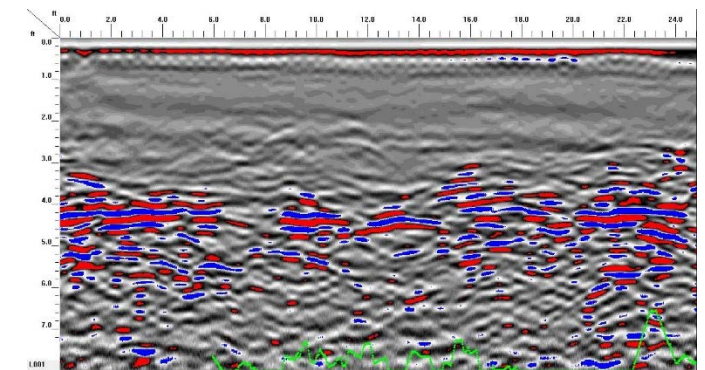
GPR TRANSECT 12



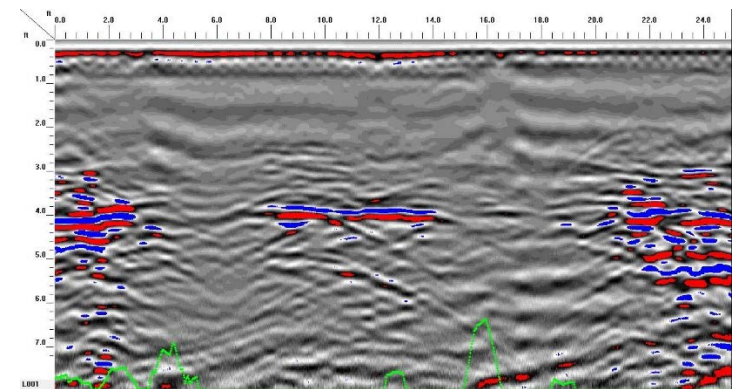
GPR TRANSECT 13



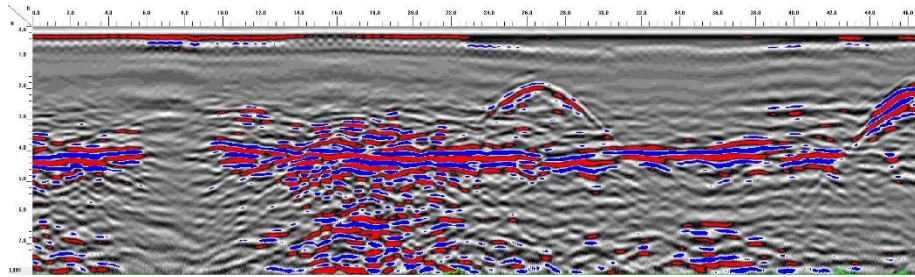
GPR TRANSECT 14



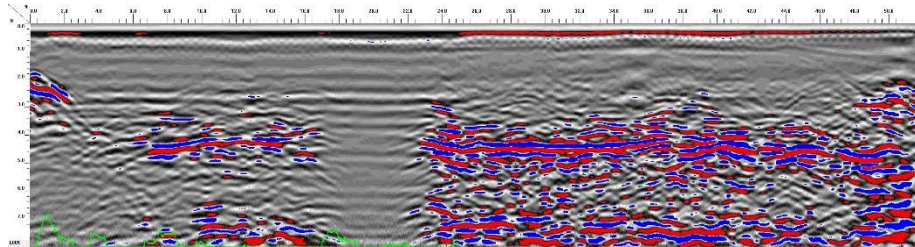
GPR TRANSECT 15



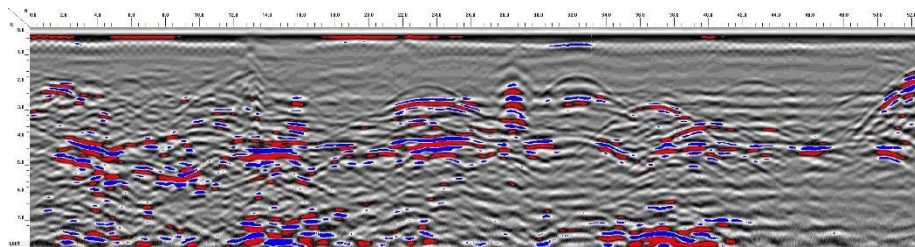
GPR TRANSECT 16



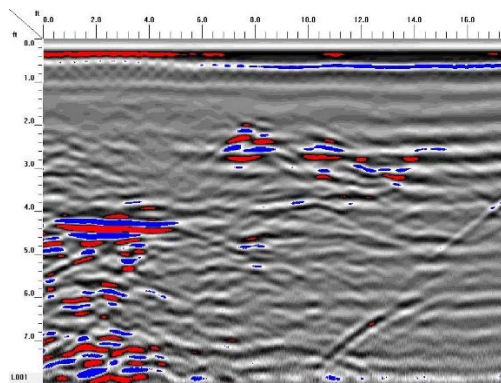
GPR TRANSECT 17



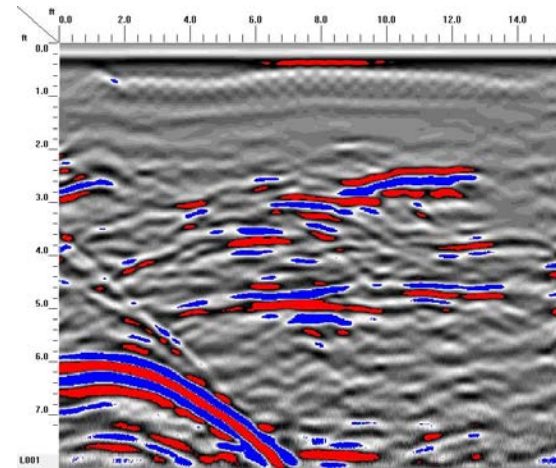
GPR TRANSECT 18



GPR TRANSECT 19



GPR TRANSECT 20



GPR TRANSECT 21

*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



APPENDIX B

Photographic Log

GEOSYNTEC CONSULTANTS
Photographic Record

Client: NCDOT

Project Number: GN7039

Site Name: R-5726 - Parcel 78

Site Location: 4219 NC 211, West End, NC

Photograph 1

Date: 29 July 2019

Direction: N-NE

Comments: View of the southern side of the convenience store building and southeastern side of the fuel island.



Photograph 2

Date: 29 July 2019

Direction: NW

Comments: View of the southwestern side of the fuel island.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: NCDOT

Project Number: GN7039

Site Name: R-5726 - Parcel 78

Site Location: 4219 NC 211, West End, NC

Photograph 3

Date: 29 July 2019

Direction: NE

**Comments: View of the
northwestern side of the
Site.**



Photograph 4

Date: 29 July 2019

Direction: E

**Comments: View of the
western side of the fuel
island.**



*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



APPENDIX C

Soil Boring Logs

BORING LOG

BORING NO. SB78-01

SHEET 1 OF 1

DRILLING CO.: <u>Saedacco</u>		Status: <input type="checkbox"/> Well Installed <input type="checkbox"/> Plugged & Abndd.	SITE: <u>West End</u>		Borehole Location Sketch Map				
METHOD & TOOLS: <u>DPT</u>			PROJECT NO.: <u>GN 7039</u>						
RIG: <u>Geoprobe 78220T</u>		N: _____ E: _____							
BIT DIAMETER: <u>2 1/4"</u>		DRILLER: <u>Brian T</u>		SUPERVISOR: <u>M Wang</u>					
GROUND ELEV.: <input type="checkbox"/> Surveyed <input type="checkbox"/> Estimated		DATE: <u>8/13/19</u>							
Top (Depth)	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	Lithology Log	Graphic Log	Depth Scale	Well	SPT Blows/6*	Run (No.)	Rec (%)	Drilling Log
0-4 ft		0-1 ft concrete						100	Mand Auger P2D=0
		1-3 ft mostly silt with some sand, brown, dry - moist, too loose - compact							Location renamed to SB78-01, was SB78-03
		3-4 to, brown sand with some silt, poorly sorted, dry - moist loose - compact							
4-5 ft		same as above interval						100	P2D=0
5-10		5-6 ft. no recovery						80	
		6-7 ft brown sand, fine-medium, dry - moist, loose							P2D=0.6 ppm @ 7 ft
		7-10 ft, sandy clay, brown 8 reddish color, dry - moist, low - medium plastic							P2D=0.4 ppm @ 7.5 ft
		samples are collected from							P2D=0.2 ppm from 7.5 - 10 ft
		7-7.5 ft @ 1550							
		SB78-01-7-7.5							

MW

DRILLING CO.: Saedacco

METHOD & TOOLS: DPT

RIG: Geoprobe 7822 DT

BIT DIAMETER: 2 1/4" DRILLER: Brian T

GROUND ELEV.: Surveyed Estimated

Status:
 Well Installed
 Plugged & Abnd.

SITE: West End

PROJECT NO.: GN7039

N: E:

SUPERVISOR: M. Chang

DATE: 8/14/19

Borehole Location Sketch Map

Top (Depth)	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	Lithology Log	Graphic Log	Depth Scale	Well	SPT Blows/6"	Run (No.)	Rec. (%)	Drilling Log
0-4 ft		0-1 ft, concrete 1-2.5 ft, silt with with brown color, some sand, some plastic loose-compact, dry-moist 2.5-4 ft, brown sand with some silt, less plastic, loose, moist, fine-medium, poorly sorted						100	Hard Auger PID=0
4-5 ft		Same as interval 2.5-4 ft above.						100	PID=0
5-10 ft		5-5.5 ft, no recovery 5.5-6.5 ft, same as 4-5 ft interval 6.5-8 ft, brown sand, medium, moist, loose, poorly sorted 8-10 ft, saprolite, brown sand, mixed with some reddish clay & gravels. dry-moist, low plastic.						90	PID=0
<p>Samples are collected from 5.5-6 ft @ 0825 SB78-02-5.5-6</p>									

mm

DRILLING CO.: <u>Sardacco</u>		Status: <input type="checkbox"/> Well Installed <input type="checkbox"/> Plugged & Abnd. <input type="checkbox"/>	SITE: <u>NCDOT West End</u>		Borehole Location Sketch Map				
METHOD & TOOLS: <u>DPT</u>			PROJECT NO.: <u>GN7039</u>						
RIG: <u>Geoprobe 7822 DT</u>		N: _____ E: _____							
BIT DIAMETER: <u>2 1/4"</u> DRILLER: <u>Brian T</u>		SUPERVISOR: <u>M Wang</u>							
GROUND ELEV.: <input type="checkbox"/> Surveyed <input type="checkbox"/> Estimated		DATE: <u>8/14/19</u>		Drilling Log					
Top (Depth)	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	Lithology Log	Graphic Log				Depth Scale	Well	SPT Blows/6*
<u>0-4 ft</u>		<u>0-1 ft, concrete.</u>						<u>100</u>	<u>Hand Auger</u>
		<u>1-2.5 ft, moist silt with some sand, brown color, loose-compact, dry-moist</u>							<u>P2D=0</u>
		<u>2.5-4 ft, moist sand with some silt, brown color, loose, moist, poorly sorted, fine-medium</u>							
<u>4-5 ft</u>		<u>same as 2.5-4 ft interval above, color is ranging from dark light dark - light brown.</u>						<u>100</u>	<u>P2D=0</u>
<u>5-10</u>		<u>5-6 ft, no recovery</u>						<u>80</u>	<u>P2D=0</u>
		<u>6-7.5 ft, light brown sand, fine to medium, moist, loose.</u>							
		<u>7.5-8 ft, dark brown sand, fine-medium, moist, loose-compact, harder than previous interval</u>							
		<u>8-10, saprolite, brown sand, fine-medium, mixed with reddish clay & gravels,</u>							
		<u>samples are collected from</u>							
		<u>6-6.5 ft @ 0900</u>							

SB78-03-6-6.5

DRILLING CO.: Snedacco

METHOD & TOOLS: DPT

RIG: Geoprobe 7822 DT

BIT DIAMETER: 2 1/4"

DRILLER: Brian T

GROUND ELEV.: Surveyed Estimated

Status:
 Well Installed
 Plugged & Abnd.

SITE: NCDOT West End

PROJECT NO.: BN7039

N: _____ E: _____

SUPERVISOR: M Wang

DATE: 8/14/19

Borehole Location Sketch Map

Top (Depth)	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	Lithology Log	Graphic Log	Depth Scale	Well	SPT Blows/6*	Run (No.)	Rec. (%)	Drilling Log
0-4 ft		0-1 ft concrete 1-1.5 ft gray silt / concrete grnd, dry, loose 3 1.5-4 ft, most silt with some sand, brown, poorly sorted, dry-moist, loose-compact. 3-4 ft, most sand with some silt, loose, moist, poorly sorted, Fine-Medium.						100%	Hand Auger PZO=0
4-5 ft		Light brown sand, fine-medium moist, loose-compact.						100	PZO=0
5-10 ft		5-5.5 ft, no recovery 5.5-7 ft, same as 4-5 ft interval 7-8 ft, dark brown sand, fine-medium, loose-compact, moist. 8-10 ft saprolite, brown sand, mixed with reddish clay & gravel, hard, moist.						90	PZO=0
<p>Samples are collected from 6.5-7 ft @ 0930</p>									

SB78-04-6.5-7

MW

*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



APPENDIX D

Red Lab UVF Report



Hydrocarbon Analysis Results

Client: Geosytec
Address: 2501 Blue Ridge Rd
 Suite 430
 Raleigh, NC 27606

Samples taken Tuesday, August 13, 2019
Samples extracted Tuesday, August 13, 2019
Samples analysed Friday, August 16, 2019

Contact: Michael Wang

Operator Harry Wooten

Project: 9795515334

U00904

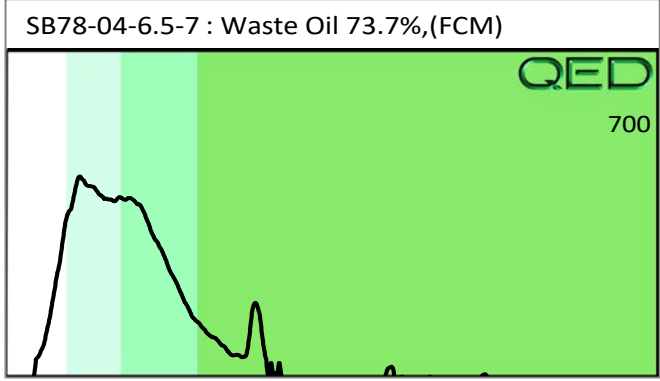
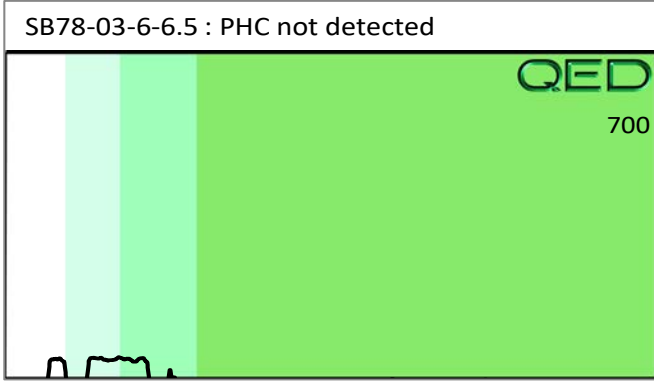
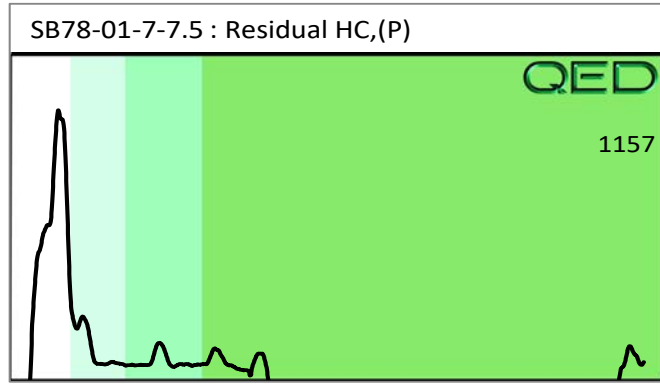
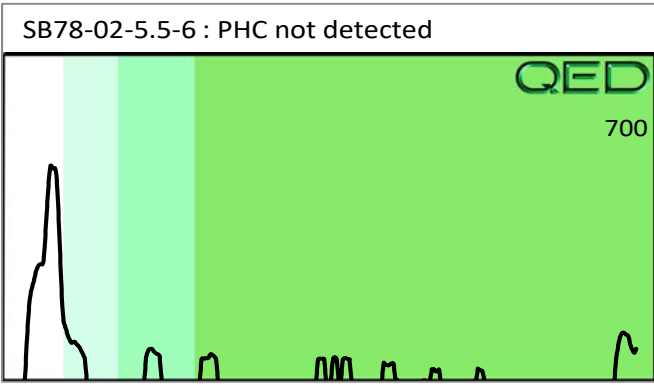
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	SB78-02-5.5-6	21.8	<0.55	<0.55	<0.55	<0.55	<0.11	<0.17	<0.022	0	0	0	PHC not detected
s	SB78-01-7-7.5	11.8	<0.29	<0.29	<0.29	<0.29	<0.06	<0.09	<0.012	0	100	0	Residual HC,(P)
s	SB78-03-6-6.5	27.7	<0.69	<0.69	<0.69	<0.69	<0.14	<0.22	<0.028	0	0	0	PHC not detected
s	SB78-04-6.5-7	13.1	<0.33	<0.33	1.9	1.9	<0.07	<0.1	<0.013	97.8	2.2	0	Waste Oil 73.7%,(FCM)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

103.7 %

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**



*Preliminary Site Assessment (Parcel 78 – C.S. Davis, Jr And J.B. Davis Moore County, LLC)
TIP Number R-5726
4219 NC 211, West End, North Carolina
October 2019*



APPENDIX E

Prism Laboratories Analytical Report



Full-Service Analytical & Environmental Solutions

NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012

Case Narrative

8/28/19 11:20

Geosyntec Consultants of NC, PC - Raleigh
Michael Wang
2501 Blue Ridge Road, Ste 430
Raleigh, NC 27607

Project: NCDOT R-5726 West End
Project No.: GN7039
Lab Submittal Date: 08/16/2019
Prism Work Order: 9080260

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.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

- SR Surrogate recovery outside the QC limits.
- 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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Client Sample ID	Lab Sample ID	Matrix	Date/Time Sampled	Date/Time Received
SB13-01-7.5-8.0	9080260-01	Solid	08/12/19 10:30	08/16/19 9:15
SB13-02-7-7.5	9080260-02	Solid	08/12/19 11:00	08/16/19 9:15
SB13-03-6.5-7.0	9080260-03	Solid	08/12/19 11:30	08/16/19 9:15
SB43-01-4.5-5.0	9080260-04	Solid	08/13/19 13:40	08/16/19 9:15
SB43-02-6.5-7.0	9080260-05	Solid	08/13/19 14:00	08/16/19 9:15
SB43-03-7.0-7.5	9080260-06	Solid	08/13/19 14:30	08/16/19 9:15
SB43-04-7.5-8.0	9080260-07	Solid	08/13/19 14:45	08/16/19 9:15
SB66867-01-5-5.5	9080260-08	Solid	08/13/19 8:40	08/16/19 9:15
SB66867-02-4.0-4.5	9080260-09	Solid	08/13/19 9:10	08/16/19 9:15
SB66867-03-6.5-7	9080260-10	Solid	08/13/19 10:20	08/16/19 9:15
SB66867-04-5.5-6.0	9080260-11	Solid	08/13/19 9:45	08/16/19 9:15
SB66867-05-7-7.5	9080260-12	Solid	08/13/19 11:10	08/16/19 9:15
SB66867-06-7.5-8	9080260-13	Solid	08/13/19 12:20	08/16/19 9:15
SB69-01-6.0-6.5	9080260-14	Solid	08/12/19 13:00	08/16/19 9:15
SB69-02-4.0-4.5	9080260-15	Solid	08/12/19 13:30	08/16/19 9:15
SB69-03-5.0-5.5	9080260-16	Solid	08/12/19 14:00	08/16/19 9:15
SB69-04-5.0-5.5	9080260-17	Solid	08/12/19 14:45	08/16/19 9:15
SB69-05-9.5-10	9080260-18	Solid	08/12/19 15:25	08/16/19 9:15
SB69-06-9-9.5	9080260-19	Solid	08/12/19 16:15	08/16/19 9:15
SB69-07-5.0-5.5	9080260-20	Solid	08/12/19 16:45	08/16/19 9:15
SB69-08-6.0-6.5	9080260-21	Solid	08/13/19 13:00	08/16/19 9:15
SB78-01-7-7.5	9080260-22	Solid	08/13/19 15:50	08/16/19 9:15
SB78-02-5.5-6	9080260-23	Solid	08/14/19 8:25	08/16/19 9:15
SB78-03-6-6.5	9080260-24	Solid	08/14/19 9:00	08/16/19 9:15
SB78-04-6.5-7	9080260-25	Solid	08/14/19 9:30	08/16/19 9:15
SB89-01-5-5.5	9080260-26	Solid	08/15/19 9:00	08/16/19 9:15
SB89-02-5.5-6	9080260-27	Solid	08/15/19 9:40	08/16/19 9:15
SB89-03-6.5-7	9080260-28	Solid	08/15/19 10:30	08/16/19 9:15
SB89-04-7-7.5	9080260-29	Solid	08/15/19 11:30	08/16/19 9:15
SB102-01-2.5-3	9080260-30	Solid	08/14/19 10:50	08/16/19 9:15
SB102-02-5.5-6	9080260-31	Solid	08/14/19 11:35	08/16/19 9:15
SB102-03-7-7.5	9080260-32	Solid	08/14/19 13:00	08/16/19 9:15
SB102-04-7.5-8	9080260-33	Solid	08/14/19 13:30	08/16/19 9:15

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SB102-05-4.5-5	9080260-34	Solid	08/14/19 14:00	08/16/19 9:15
SB102-06-0.5-1	9080260-35	Solid	08/14/19 14:50	08/16/19 9:15
SB102-07-7.5-8	9080260-36	Solid	08/14/19 15:35	08/16/19 9:15
SB102-08-8-8.5	9080260-37	Solid	08/14/19 16:05	08/16/19 9:15
SB102-09-8.5-9	9080260-38	Solid	08/14/19 16:45	08/16/19 9:15
SB102-10-9-9.5	9080260-39	Solid	08/14/19 17:20	08/16/19 9:15

Samples were received in good condition at 3.3 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
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There were no detections reported.

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB13-01-7.5-8.0
 Prism Sample ID: 9080260-01
 Prism Work Order: 9080260
 Time Collected: 08/12/19 10:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	91.0	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0071	0.0011	1	8260D	8/20/19 17:51	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0071	0.0011	1	8260D	8/20/19 17:51	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0018	1	8260D	8/20/19 17:51	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0071	0.00075	1	8260D	8/20/19 17:51	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0071	0.0011	1	8260D	8/20/19 17:51	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.021	0.0025	1	8260D	8/20/19 17:51	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	112 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB13-02-7-7.5
 Prism Sample ID: 9080260-02
 Prism Work Order: 9080260
 Time Collected: 08/12/19 11:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	86.2	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0069	0.0011	1	8260D	8/20/19 18:21	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0069	0.0010	1	8260D	8/20/19 18:21	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0018	1	8260D	8/20/19 18:21	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0069	0.00074	1	8260D	8/20/19 18:21	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0069	0.0011	1	8260D	8/20/19 18:21	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.021	0.0025	1	8260D	8/20/19 18:21	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	98 %	70-130
Dibromofluoromethane	114 %	84-123
Toluene-d8	94 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB13-03-6.5-7.0
 Prism Sample ID: 9080260-03
 Prism Work Order: 9080260
 Time Collected: 08/12/19 11:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	95.0	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0051	0.00079	1	8260D	8/20/19 18:51	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00077	1	8260D	8/20/19 18:51	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.010	0.0013	1	8260D	8/20/19 18:51	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0051	0.00054	1	8260D	8/20/19 18:51	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0051	0.00081	1	8260D	8/20/19 18:51	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.015	0.0018	1	8260D	8/20/19 18:51	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	116 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB43-01-4.5-5.0
 Prism Sample ID: 9080260-04
 Prism Work Order: 9080260
 Time Collected: 08/13/19 13:40
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	97.8	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0053	0.00083	1	8260D	8/20/19 19:21	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00080	1	8260D	8/20/19 19:21	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/20/19 19:21	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0053	0.00056	1	8260D	8/20/19 19:21	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0053	0.00084	1	8260D	8/20/19 19:21	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.016	0.0019	1	8260D	8/20/19 19:21	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	113 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB43-02-6.5-7.0
 Prism Sample ID: 9080260-05
 Prism Work Order: 9080260
 Time Collected: 08/13/19 14:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	91.4	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0073	0.0011	1	8260D	8/22/19 15:18	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0073	0.0011	1	8260D	8/22/19 15:18	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.015	0.0019	1	8260D	8/22/19 15:18	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0073	0.00077	1	8260D	8/22/19 15:18	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0073	0.0012	1	8260D	8/22/19 15:18	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.022	0.0026	1	8260D	8/22/19 15:18	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	127 %	84-123
Toluene-d8	93 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB43-03-7.0-7.5
 Prism Sample ID: 9080260-06
 Prism Work Order: 9080260
 Time Collected: 08/13/19 14:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	75.6	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0061	0.00095	1	8260D	8/20/19 20:21	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00091	1	8260D	8/20/19 20:21	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0016	1	8260D	8/20/19 20:21	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0061	0.00065	1	8260D	8/20/19 20:21	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0061	0.00097	1	8260D	8/20/19 20:21	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.018	0.0022	1	8260D	8/20/19 20:21	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	120 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB43-04-7.5-8.0
 Prism Sample ID: 9080260-07
 Prism Work Order: 9080260
 Time Collected: 08/13/19 14:45
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	84.1	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0054	0.00085	1	8260D	8/20/19 20:51	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0054	0.00082	1	8260D	8/20/19 20:51	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/20/19 20:51	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0054	0.00058	1	8260D	8/20/19 20:51	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0054	0.00086	1	8260D	8/20/19 20:51	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.016	0.0020	1	8260D	8/20/19 20:51	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	101 %	70-130
Dibromofluoromethane	119 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-01-5-5.5
 Prism Sample ID: 9080260-08
 Prism Work Order: 9080260
 Time Collected: 08/13/19 08:40
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	90.8	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0050	0.00078	1	8260D	8/20/19 21:21	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00075	1	8260D	8/20/19 21:21	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.010	0.0013	1	8260D	8/20/19 21:21	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0050	0.00053	1	8260D	8/20/19 21:21	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0050	0.00080	1	8260D	8/20/19 21:21	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.015	0.0018	1	8260D	8/20/19 21:21	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	122 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-02-4.0-4.5
 Prism Sample ID: 9080260-09
 Prism Work Order: 9080260
 Time Collected: 08/13/19 09:10
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	86.8	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0061	0.00096	1	8260D	8/20/19 21:51	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00092	1	8260D	8/20/19 21:51	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0016	1	8260D	8/20/19 21:51	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0061	0.00065	1	8260D	8/20/19 21:51	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0061	0.00098	1	8260D	8/20/19 21:51	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.018	0.0022	1	8260D	8/20/19 21:51	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	118 %	84-123
Toluene-d8	97 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-03-6.5-7
 Prism Sample ID: 9080260-10
 Prism Work Order: 9080260
 Time Collected: 08/13/19 10:20
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	90.8	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0059	0.00092	1	8260D	8/20/19 22:20	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0059	0.00088	1	8260D	8/20/19 22:20	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/20/19 22:20	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0059	0.00063	1	8260D	8/20/19 22:20	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0059	0.00094	1	8260D	8/20/19 22:20	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.018	0.0021	1	8260D	8/20/19 22:20	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	120 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-04-5.5-6.0
 Prism Sample ID: 9080260-11
 Prism Work Order: 9080260
 Time Collected: 08/13/19 09:45
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	94.1	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0056	0.00088	1	8260D	8/20/19 22:50	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0056	0.00085	1	8260D	8/20/19 22:50	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/20/19 22:50	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0056	0.00060	1	8260D	8/20/19 22:50	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0056	0.00090	1	8260D	8/20/19 22:50	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.017	0.0020	1	8260D	8/20/19 22:50	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	97 %	70-130
Dibromofluoromethane	118 %	84-123
Toluene-d8	96 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-05-7-7.5
 Prism Sample ID: 9080260-12
 Prism Work Order: 9080260
 Time Collected: 08/13/19 11:10
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	89.3	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0060	0.00094	1	8260D	8/20/19 23:20	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00091	1	8260D	8/20/19 23:20	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/20/19 23:20	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0060	0.00064	1	8260D	8/20/19 23:20	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0060	0.00096	1	8260D	8/20/19 23:20	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.018	0.0022	1	8260D	8/20/19 23:20	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	119 %	84-123
Toluene-d8	94 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB66867-06-7.5-8
 Prism Sample ID: 9080260-13
 Prism Work Order: 9080260
 Time Collected: 08/13/19 12:20
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	89.0	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0049	0.00076	1	8260D	8/19/19 16:12	JLB	P9H0310
Ethylbenzene	BRL	mg/kg dry	0.0049	0.00074	1	8260D	8/19/19 16:12	JLB	P9H0310
m,p-Xylenes	BRL	mg/kg dry	0.0098	0.0013	1	8260D	8/19/19 16:12	JLB	P9H0310
o-Xylene	BRL	mg/kg dry	0.0049	0.00052	1	8260D	8/19/19 16:12	JLB	P9H0310
Toluene	BRL	mg/kg dry	0.0049	0.00078	1	8260D	8/19/19 16:12	JLB	P9H0310
Xylenes, total	BRL	mg/kg dry	0.015	0.0018	1	8260D	8/19/19 16:12	JLB	P9H0310

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	110 %	84-123
Toluene-d8	97 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-01-6.0-6.5
 Prism Sample ID: 9080260-14
 Prism Work Order: 9080260
 Time Collected: 08/12/19 13:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	90.5	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0052	0.00081	1	8260D	8/21/19 19:41	JLB	P9H0366
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00078	1	8260D	8/21/19 19:41	JLB	P9H0366
m,p-Xylenes	BRL	mg/kg dry	0.010	0.0013	1	8260D	8/21/19 19:41	JLB	P9H0366
o-Xylene	BRL	mg/kg dry	0.0052	0.00055	1	8260D	8/21/19 19:41	JLB	P9H0366
Toluene	BRL	mg/kg dry	0.0052	0.00082	1	8260D	8/21/19 19:41	JLB	P9H0366
Xylenes, total	BRL	mg/kg dry	0.016	0.0019	1	8260D	8/21/19 19:41	JLB	P9H0366

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	123 %	84-123
Toluene-d8	92 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-02-4.0-4.5
 Prism Sample ID: 9080260-15
 Prism Work Order: 9080260
 Time Collected: 08/12/19 13:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	95.0	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0080	0.0012	1	8260D	8/21/19 0:20	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0080	0.0012	1	8260D	8/21/19 0:20	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.016	0.0020	1	8260D	8/21/19 0:20	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0080	0.00085	1	8260D	8/21/19 0:20	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0080	0.0013	1	8260D	8/21/19 0:20	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.024	0.0029	1	8260D	8/21/19 0:20	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	122 %	84-123
Toluene-d8	95 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-03-5.0-5.5
 Prism Sample ID: 9080260-16
 Prism Work Order: 9080260
 Time Collected: 08/12/19 14:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	93.2	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0043	0.00067	1	8260D	8/21/19 0:49	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00064	1	8260D	8/21/19 0:49	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.0086	0.0011	1	8260D	8/21/19 0:49	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0043	0.00046	1	8260D	8/21/19 0:49	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0043	0.00068	1	8260D	8/21/19 0:49	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.013	0.0015	1	8260D	8/21/19 0:49	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	121 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-04-5.0-5.5
 Prism Sample ID: 9080260-17
 Prism Work Order: 9080260
 Time Collected: 08/12/19 14:45
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	92.2	% by Weight	0.100	0.100	1	*SM2540 G	8/22/19 10:22	EDV	P9H0353
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0049	0.00076	1	8260D	8/21/19 1:19	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0049	0.00074	1	8260D	8/21/19 1:19	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.0098	0.0013	1	8260D	8/21/19 1:19	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0049	0.00052	1	8260D	8/21/19 1:19	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0049	0.00078	1	8260D	8/21/19 1:19	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.015	0.0018	1	8260D	8/21/19 1:19	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	123 %	84-123
Toluene-d8	94 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-05-9.5-10
 Prism Sample ID: 9080260-18
 Prism Work Order: 9080260
 Time Collected: 08/12/19 15:25
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	91.0	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0056	0.00088	1	8260D	8/21/19 1:50	JLB	P9H0347
Ethylbenzene	BRL	mg/kg dry	0.0056	0.00084	1	8260D	8/21/19 1:50	JLB	P9H0347
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/21/19 1:50	JLB	P9H0347
o-Xylene	BRL	mg/kg dry	0.0056	0.00060	1	8260D	8/21/19 1:50	JLB	P9H0347
Toluene	BRL	mg/kg dry	0.0056	0.00089	1	8260D	8/21/19 1:50	JLB	P9H0347
Xylenes, total	BRL	mg/kg dry	0.017	0.0020	1	8260D	8/21/19 1:50	JLB	P9H0347

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	119 %	84-123
Toluene-d8	94 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-06-9-9.5
 Prism Sample ID: 9080260-19
 Prism Work Order: 9080260
 Time Collected: 08/12/19 16:15
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	87.3	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0046	0.00072	1	8260D	8/22/19 15:47	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00069	1	8260D	8/22/19 15:47	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.0092	0.0012	1	8260D	8/22/19 15:47	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0046	0.00049	1	8260D	8/22/19 15:47	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0046	0.00073	1	8260D	8/22/19 15:47	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.014	0.0017	1	8260D	8/22/19 15:47	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	125 %	84-123
Toluene-d8	92 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-07-5.0-5.5
 Prism Sample ID: 9080260-20
 Prism Work Order: 9080260
 Time Collected: 08/12/19 16:45
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	93.3	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0051	0.00080	1	8260D	8/22/19 16:17	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00077	1	8260D	8/22/19 16:17	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.010	0.0013	1	8260D	8/22/19 16:17	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0051	0.00055	1	8260D	8/22/19 16:17	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0051	0.00082	1	8260D	8/22/19 16:17	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.015	0.0019	1	8260D	8/22/19 16:17	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	127 %	84-123
Toluene-d8	94 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB69-08-6.0-6.5
 Prism Sample ID: 9080260-21
 Prism Work Order: 9080260
 Time Collected: 08/13/19 13:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	85.7	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0060	0.00094	1	8260D	8/26/19 19:27	JLB	P9H0434
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00091	1	8260D	8/26/19 19:27	JLB	P9H0434
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/26/19 19:27	JLB	P9H0434
o-Xylene	BRL	mg/kg dry	0.0060	0.00064	1	8260D	8/26/19 19:27	JLB	P9H0434
Toluene	BRL	mg/kg dry	0.0060	0.00096	1	8260D	8/26/19 19:27	JLB	P9H0434
Xylenes, total	BRL	mg/kg dry	0.018	0.0022	1	8260D	8/26/19 19:27	JLB	P9H0434

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	112 %	70-130
Dibromofluoromethane	96 %	84-123
Toluene-d8	101 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB78-01-7-7.5
 Prism Sample ID: 9080260-22
 Prism Work Order: 9080260
 Time Collected: 08/13/19 15:50
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	83.4	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0053	0.00082	1	8260D	8/22/19 17:34	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00079	1	8260D	8/22/19 17:34	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0013	1	8260D	8/22/19 17:34	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0053	0.00056	1	8260D	8/22/19 17:34	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0053	0.00084	1	8260D	8/22/19 17:34	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.016	0.0019	1	8260D	8/22/19 17:34	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	132 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB78-02-5.5-6
 Prism Sample ID: 9080260-23
 Prism Work Order: 9080260
 Time Collected: 08/14/19 08:25
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	97.8	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0043	0.00067	1	8260D	8/19/19 16:42	JLB	P9H0310
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00065	1	8260D	8/19/19 16:42	JLB	P9H0310
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0043	0.00050	1	8260D	8/19/19 16:42	JLB	P9H0310
m,p-Xylenes	BRL	mg/kg dry	0.0086	0.0011	1	8260D	8/19/19 16:42	JLB	P9H0310
o-Xylene	BRL	mg/kg dry	0.0043	0.00046	1	8260D	8/19/19 16:42	JLB	P9H0310
Toluene	BRL	mg/kg dry	0.0043	0.00068	1	8260D	8/19/19 16:42	JLB	P9H0310
Xylenes, total	BRL	mg/kg dry	0.013	0.0015	1	8260D	8/19/19 16:42	JLB	P9H0310

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	109 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB78-03-6-6.5
 Prism Sample ID: 9080260-24
 Prism Work Order: 9080260
 Time Collected: 08/14/19 09:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	85.2	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0068	0.0011	1	8260D	8/19/19 17:12	JLB	P9H0310
Ethylbenzene	BRL	mg/kg dry	0.0068	0.0010	1	8260D	8/19/19 17:12	JLB	P9H0310
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0017	1	8260D	8/19/19 17:12	JLB	P9H0310
o-Xylene	BRL	mg/kg dry	0.0068	0.00072	1	8260D	8/19/19 17:12	JLB	P9H0310
Toluene	BRL	mg/kg dry	0.0068	0.0011	1	8260D	8/19/19 17:12	JLB	P9H0310
Xylenes, total	BRL	mg/kg dry	0.020	0.0024	1	8260D	8/19/19 17:12	JLB	P9H0310

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	110 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB78-04-6.5-7
 Prism Sample ID: 9080260-25
 Prism Work Order: 9080260
 Time Collected: 08/14/19 09:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	85.1	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0062	0.00097	1	8260D	8/22/19 18:04	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00093	1	8260D	8/22/19 18:04	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0016	1	8260D	8/22/19 18:04	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0062	0.00066	1	8260D	8/22/19 18:04	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0062	0.00099	1	8260D	8/22/19 18:04	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.019	0.0022	1	8260D	8/22/19 18:04	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	98 %	70-130
Dibromofluoromethane	130 %	84-123
Toluene-d8	93 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB89-01-5-5.5
 Prism Sample ID: 9080260-26
 Prism Work Order: 9080260
 Time Collected: 08/15/19 09:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	96.3	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0056	0.00088	1	8260D	8/22/19 18:34	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0056	0.00085	1	8260D	8/22/19 18:34	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/22/19 18:34	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0056	0.00060	1	8260D	8/22/19 18:34	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0056	0.00090	1	8260D	8/22/19 18:34	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.017	0.0020	1	8260D	8/22/19 18:34	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	98 %	70-130
Dibromofluoromethane	127 %	84-123
Toluene-d8	94 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB89-02-5.5-6
 Prism Sample ID: 9080260-27
 Prism Work Order: 9080260
 Time Collected: 08/15/19 09:40
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	96.6	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0066	0.0010	1	8260D	8/22/19 19:04	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0066	0.0010	1	8260D	8/22/19 19:04	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.013	0.0017	1	8260D	8/22/19 19:04	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0066	0.00070	1	8260D	8/22/19 19:04	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0066	0.0011	1	8260D	8/22/19 19:04	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.020	0.0024	1	8260D	8/22/19 19:04	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	135 %	84-123
Toluene-d8	93 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB89-03-6.5-7
 Prism Sample ID: 9080260-28
 Prism Work Order: 9080260
 Time Collected: 08/15/19 10:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	92.2	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0065	0.0010	1	8260D	8/22/19 19:34	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0065	0.00098	1	8260D	8/22/19 19:34	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.013	0.0017	1	8260D	8/22/19 19:34	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0065	0.00069	1	8260D	8/22/19 19:34	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0065	0.0010	1	8260D	8/22/19 19:34	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.019	0.0023	1	8260D	8/22/19 19:34	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	128 %	84-123
Toluene-d8	90 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB89-04-7-7.5
 Prism Sample ID: 9080260-29
 Prism Work Order: 9080260
 Time Collected: 08/15/19 11:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	93.9	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0062	0.00097	1	8260D	8/22/19 20:03	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00094	1	8260D	8/22/19 20:03	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0016	1	8260D	8/22/19 20:03	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0062	0.00066	1	8260D	8/22/19 20:03	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0062	0.00099	1	8260D	8/22/19 20:03	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.019	0.0022	1	8260D	8/22/19 20:03	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	98 %	70-130
Dibromofluoromethane	136 %	84-123
Toluene-d8	91 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-01-2.5-3
 Prism Sample ID: 9080260-30
 Prism Work Order: 9080260
 Time Collected: 08/14/19 10:50
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	89.8	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0069	0.0011	1	8260D	8/22/19 20:33	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0069	0.0010	1	8260D	8/22/19 20:33	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0018	1	8260D	8/22/19 20:33	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0069	0.00073	1	8260D	8/22/19 20:33	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0069	0.0011	1	8260D	8/22/19 20:33	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.021	0.0025	1	8260D	8/22/19 20:33	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	101 %	70-130
Dibromofluoromethane	134 %	84-123
Toluene-d8	92 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-02-5.5-6
 Prism Sample ID: 9080260-31
 Prism Work Order: 9080260
 Time Collected: 08/14/19 11:35
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	96.4	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0059	0.00093	1	8260D	8/22/19 21:03	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0059	0.00089	1	8260D	8/22/19 21:03	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/22/19 21:03	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0059	0.00063	1	8260D	8/22/19 21:03	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0059	0.00095	1	8260D	8/22/19 21:03	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.018	0.0021	1	8260D	8/22/19 21:03	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	100 %	70-130
Dibromofluoromethane	133 %	84-123
Toluene-d8	91 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-03-7-7.5
 Prism Sample ID: 9080260-32
 Prism Work Order: 9080260
 Time Collected: 08/14/19 13:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	94.4	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0053	0.00082	1	8260D	8/22/19 21:33	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00079	1	8260D	8/22/19 21:33	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/22/19 21:33	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0053	0.00056	1	8260D	8/22/19 21:33	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0053	0.00084	1	8260D	8/22/19 21:33	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.016	0.0019	1	8260D	8/22/19 21:33	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	132 %	84-123
Toluene-d8	91 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-04-7.5-8
 Prism Sample ID: 9080260-33
 Prism Work Order: 9080260
 Time Collected: 08/14/19 13:30
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	80.6	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0060	0.00094	1	8260D	8/22/19 22:03	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00091	1	8260D	8/22/19 22:03	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/22/19 22:03	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0060	0.00064	1	8260D	8/22/19 22:03	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0060	0.00096	1	8260D	8/22/19 22:03	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.018	0.0022	1	8260D	8/22/19 22:03	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	97 %	70-130
Dibromofluoromethane	131 %	84-123
Toluene-d8	92 %	76-129

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 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-05-4.5-5
 Prism Sample ID: 9080260-34
 Prism Work Order: 9080260
 Time Collected: 08/14/19 14:00
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	97.4	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0070	0.0011	1	8260D	8/22/19 22:33	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0070	0.0011	1	8260D	8/22/19 22:33	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0018	1	8260D	8/22/19 22:33	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0070	0.00075	1	8260D	8/22/19 22:33	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0070	0.0011	1	8260D	8/22/19 22:33	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.021	0.0025	1	8260D	8/22/19 22:33	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	138 %	84-123
Toluene-d8	96 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-06-0.5-1
 Prism Sample ID: 9080260-35
 Prism Work Order: 9080260
 Time Collected: 08/14/19 14:50
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	88.1	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0075	0.0012	1	8260D	8/22/19 23:02	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0075	0.0011	1	8260D	8/22/19 23:02	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.015	0.0019	1	8260D	8/22/19 23:02	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0075	0.00080	1	8260D	8/22/19 23:02	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0075	0.0012	1	8260D	8/22/19 23:02	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.022	0.0027	1	8260D	8/22/19 23:02	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	143 %	84-123
Toluene-d8	89 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-07-7.5-8
 Prism Sample ID: 9080260-36
 Prism Work Order: 9080260
 Time Collected: 08/14/19 15:35
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	83.5	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0043	0.00067	1	8260D	8/22/19 23:33	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00065	1	8260D	8/22/19 23:33	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.0086	0.0011	1	8260D	8/22/19 23:33	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0043	0.00046	1	8260D	8/22/19 23:33	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0043	0.00069	1	8260D	8/22/19 23:33	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.013	0.0016	1	8260D	8/22/19 23:33	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	135 %	84-123
Toluene-d8	91 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-08-8-8.5
 Prism Sample ID: 9080260-37
 Prism Work Order: 9080260
 Time Collected: 08/14/19 16:05
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	87.9	% by Weight	0.100	0.100	1	*SM2540 G	8/23/19 8:10	EDV	P9H0369
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0058	0.00090	1	8260D	8/26/19 18:57	JLB	P9H0434
Ethylbenzene	BRL	mg/kg dry	0.0058	0.00087	1	8260D	8/26/19 18:57	JLB	P9H0434
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0015	1	8260D	8/26/19 18:57	JLB	P9H0434
o-Xylene	BRL	mg/kg dry	0.0058	0.00061	1	8260D	8/26/19 18:57	JLB	P9H0434
Toluene	BRL	mg/kg dry	0.0058	0.00092	1	8260D	8/26/19 18:57	JLB	P9H0434
Xylenes, total	BRL	mg/kg dry	0.017	0.0021	1	8260D	8/26/19 18:57	JLB	P9H0434

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	93 %	84-123
Toluene-d8	99 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-09-8.5-9
 Prism Sample ID: 9080260-38
 Prism Work Order: 9080260
 Time Collected: 08/14/19 16:45
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	87.0	% by Weight	0.100	0.100	1	*SM2540 G	8/26/19 8:25	EDV	P9H0406
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0053	0.00082	1	8260D	8/23/19 0:32	JLB	P9H0389
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00079	1	8260D	8/23/19 0:32	JLB	P9H0389
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260D	8/23/19 0:32	JLB	P9H0389
o-Xylene	BRL	mg/kg dry	0.0053	0.00056	1	8260D	8/23/19 0:32	JLB	P9H0389
Toluene	BRL	mg/kg dry	0.0053	0.00084	1	8260D	8/23/19 0:32	JLB	P9H0389
Xylenes, total	BRL	mg/kg dry	0.016	0.0019	1	8260D	8/23/19 0:32	JLB	P9H0389

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	98 %	70-130
Dibromofluoromethane	140 %	84-123
Toluene-d8	95 %	76-129

Geosyntec Consultants of NC, PC - Raleigh
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430
 Raleigh, NC 27607

Project: NCDOT R-5726 West End
 Project No.: GN7039
 Sample Matrix: Solid

Client Sample ID: SB102-10-9-9.5
 Prism Sample ID: 9080260-39
 Prism Work Order: 9080260
 Time Collected: 08/14/19 17:20
 Time Submitted: 08/16/19 09:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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General Chemistry Parameters

% Solids	89.4	% by Weight	0.100	0.100	1	*SM2540 G	8/26/19 8:25	EDV	P9H0406
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Volatile Organic Compounds by GC/MS

Benzene	BRL	mg/kg dry	0.0048	0.00075	1	8260D	8/26/19 18:27	JLB	P9H0434
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00072	1	8260D	8/26/19 18:27	JLB	P9H0434
m,p-Xylenes	BRL	mg/kg dry	0.0096	0.0012	1	8260D	8/26/19 18:27	JLB	P9H0434
o-Xylene	BRL	mg/kg dry	0.0048	0.00051	1	8260D	8/26/19 18:27	JLB	P9H0434
Toluene	BRL	mg/kg dry	0.0048	0.00077	1	8260D	8/26/19 18:27	JLB	P9H0434
Xylenes, total	BRL	mg/kg dry	0.014	0.0017	1	8260D	8/26/19 18:27	JLB	P9H0434

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	95 %	84-123
Toluene-d8	98 %	76-129



Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

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 P9H0310 - 5035										
Blank (P9H0310-BLK1)										
Prepared & Analyzed: 08/19/19										
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.020	mg/kg wet							
Benzene	BRL	0.0050	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.010	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.020	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.020	mg/kg wet							

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Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

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 P9H0310 - 5035										
Blank (P9H0310-BLK1)										
Prepared & Analyzed: 08/19/19										
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.010	mg/kg wet							
Vinyl acetate	BRL	0.010	mg/kg wet							
Vinyl chloride	BRL	0.010	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	50.9		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	53.9		ug/L	50.00		108	84-123			
Surrogate: Toluene-d8	49.2		ug/L	50.00		98	76-129			
LCS (P9H0310-BS1)										
Prepared & Analyzed: 08/19/19										
1,1,1,2-Tetrachloroethane	0.0442	0.0050	mg/kg wet	0.05000		88	72-115			
1,1,1-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	67-131			
1,1,2,2-Tetrachloroethane	0.0421	0.0050	mg/kg wet	0.05000		84	56-126			
1,1,2-Trichloroethane	0.0421	0.0050	mg/kg wet	0.05000		84	70-133			
1,1-Dichloroethane	0.0432	0.0050	mg/kg wet	0.05000		86	74-127			
1,1-Dichloroethylene	0.0394	0.0050	mg/kg wet	0.05000		79	67-149			
1,1-Dichloropropylene	0.0453	0.0050	mg/kg wet	0.05000		91	71-130			
1,2,3-Trichlorobenzene	0.0432	0.010	mg/kg wet	0.05000		86	68-130			
1,2,3-Trichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	60-137			
1,2,4-Trichlorobenzene	0.0450	0.010	mg/kg wet	0.05000		90	66-125			
1,2,4-Trimethylbenzene	0.0442	0.0050	mg/kg wet	0.05000		88	69-129			
1,2-Dibromoethane	0.0426	0.0050	mg/kg wet	0.05000		85	70-132			
1,2-Dichlorobenzene	0.0425	0.0050	mg/kg wet	0.05000		85	72-123			
1,2-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	68-128			
1,2-Dichloropropane	0.0437	0.0050	mg/kg wet	0.05000		87	73-130			
1,3,5-Trimethylbenzene	0.0440	0.0050	mg/kg wet	0.05000		88	69-128			
1,3-Dichlorobenzene	0.0429	0.0050	mg/kg wet	0.05000		86	71-120			
1,3-Dichloropropane	0.0428	0.0050	mg/kg wet	0.05000		86	75-124			
1,4-Dichlorobenzene	0.0428	0.0050	mg/kg wet	0.05000		86	71-123			
2,2-Dichloropropane	0.0463	0.0050	mg/kg wet	0.05000		93	50-142			
2-Chlorotoluene	0.0437	0.0050	mg/kg wet	0.05000		87	67-124			
4-Chlorotoluene	0.0438	0.0050	mg/kg wet	0.05000		88	71-126			
4-Isopropyltoluene	0.0451	0.0050	mg/kg wet	0.05000		90	68-129			
Acetone	0.120	0.020	mg/kg wet	0.1000		120	29-198			

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Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

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 P9H0310 - 5035										
LCS (P9H0310-BS1)										
Prepared & Analyzed: 08/19/19										
Benzene	0.0433	0.0050	mg/kg wet	0.05000		87	74-127			
Bromobenzene	0.0429	0.0050	mg/kg wet	0.05000		86	73-125			
Bromochloromethane	0.0422	0.0050	mg/kg wet	0.05000		84	72-134			
Bromodichloromethane	0.0456	0.0050	mg/kg wet	0.05000		91	75-122			
Bromoform	0.0467	0.0050	mg/kg wet	0.05000		93	66-135			
Bromomethane	0.0437	0.010	mg/kg wet	0.05000		87	20-180			
Carbon Tetrachloride	0.0464	0.0050	mg/kg wet	0.05000		93	64-143			
Chlorobenzene	0.0429	0.0050	mg/kg wet	0.05000		86	74-118			
Chloroethane	0.0420	0.010	mg/kg wet	0.05000		84	33-149			
Chloroform	0.0442	0.0050	mg/kg wet	0.05000		88	73-127			
Chloromethane	0.0382	0.010	mg/kg wet	0.05000		76	45-143			
cis-1,2-Dichloroethylene	0.0432	0.0050	mg/kg wet	0.05000		86	76-134			
cis-1,3-Dichloropropylene	0.0444	0.0050	mg/kg wet	0.05000		89	71-125			
Dibromochloromethane	0.0446	0.0050	mg/kg wet	0.05000		89	73-122			
Dichlorodifluoromethane	0.0405	0.010	mg/kg wet	0.05000		81	26-146			
Ethylbenzene	0.0435	0.0050	mg/kg wet	0.05000		87	74-128			
Isopropyl Ether	0.0443	0.0050	mg/kg wet	0.05000		89	59-159			
Isopropylbenzene (Cumene)	0.0440	0.0050	mg/kg wet	0.05000		88	68-126			
m,p-Xylenes	0.0886	0.010	mg/kg wet	0.1000		89	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0480	0.020	mg/kg wet	0.05000		96	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.020	mg/kg wet	0.05000		102	63-149			
Methyl Isobutyl Ketone	0.0451	0.020	mg/kg wet	0.05000		90	57-162			
Methylene Chloride	0.0414	0.0050	mg/kg wet	0.05000		83	74-129			
Methyl-tert-Butyl Ether	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
Naphthalene	0.0428	0.010	mg/kg wet	0.05000		86	57-157			
n-Butylbenzene	0.0460	0.0050	mg/kg wet	0.05000		92	65-135			
n-Propylbenzene	0.0443	0.0050	mg/kg wet	0.05000		89	67-130			
o-Xylene	0.0442	0.0050	mg/kg wet	0.05000		88	74-126			
sec-Butylbenzene	0.0446	0.0050	mg/kg wet	0.05000		89	66-131			
Styrene	0.0438	0.0050	mg/kg wet	0.05000		88	77-121			
tert-Butylbenzene	0.0445	0.0050	mg/kg wet	0.05000		89	67-132			
Tetrachloroethylene	0.0449	0.0050	mg/kg wet	0.05000		90	68-130			
Toluene	0.0435	0.0050	mg/kg wet	0.05000		87	71-129			
trans-1,2-Dichloroethylene	0.0444	0.0050	mg/kg wet	0.05000		89	73-132			
trans-1,3-Dichloropropylene	0.0448	0.0050	mg/kg wet	0.05000		90	68-123			
Trichloroethylene	0.0453	0.0050	mg/kg wet	0.05000		91	75-133			
Trichlorofluoromethane	0.0452	0.010	mg/kg wet	0.05000		90	44-146			
Vinyl acetate	0.0456	0.010	mg/kg wet	0.05000		91	85-161			
Vinyl chloride	0.0430	0.010	mg/kg wet	0.05000		86	48-147			
Xylenes, total	0.133	0.015	mg/kg wet	0.1500		89	74-126			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.00		99	70-130			
Surrogate: Dibromofluoromethane	50.5		ug/L	50.00		101	84-123			
Surrogate: Toluene-d8	49.4		ug/L	50.00		99	76-129			

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Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

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 P9H0310 - 5035										
LCS Dup (P9H0310-BSD1)										
Prepared & Analyzed: 08/19/19										
1,1,1,2-Tetrachloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	72-115	1	20	
1,1,1-Trichloroethane	0.0444	0.0050	mg/kg wet	0.05000		89	67-131	4	20	
1,1,2,2-Tetrachloroethane	0.0413	0.0050	mg/kg wet	0.05000		83	56-126	2	20	
1,1,2-Trichloroethane	0.0422	0.0050	mg/kg wet	0.05000		84	70-133	0.4	20	
1,1-Dichloroethane	0.0423	0.0050	mg/kg wet	0.05000		85	74-127	2	20	
1,1-Dichloroethylene	0.0402	0.0050	mg/kg wet	0.05000		80	67-149	2	20	
1,1-Dichloropropylene	0.0441	0.0050	mg/kg wet	0.05000		88	71-130	3	20	
1,2,3-Trichlorobenzene	0.0433	0.010	mg/kg wet	0.05000		87	68-130	0.1	20	
1,2,3-Trichloropropane	0.0413	0.0050	mg/kg wet	0.05000		83	60-137	2	20	
1,2,4-Trichlorobenzene	0.0438	0.010	mg/kg wet	0.05000		88	66-125	3	20	
1,2,4-Trimethylbenzene	0.0436	0.0050	mg/kg wet	0.05000		87	69-129	1	20	
1,2-Dibromoethane	0.0434	0.0050	mg/kg wet	0.05000		87	70-132	2	20	
1,2-Dichlorobenzene	0.0426	0.0050	mg/kg wet	0.05000		85	72-123	0.1	20	
1,2-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	68-128	0.1	20	
1,2-Dichloropropane	0.0435	0.0050	mg/kg wet	0.05000		87	73-130	0.4	20	
1,3,5-Trimethylbenzene	0.0430	0.0050	mg/kg wet	0.05000		86	69-128	2	20	
1,3-Dichlorobenzene	0.0428	0.0050	mg/kg wet	0.05000		86	71-120	0.1	20	
1,3-Dichloropropane	0.0437	0.0050	mg/kg wet	0.05000		87	75-124	2	20	
1,4-Dichlorobenzene	0.0424	0.0050	mg/kg wet	0.05000		85	71-123	0.8	20	
2,2-Dichloropropane	0.0445	0.0050	mg/kg wet	0.05000		89	50-142	4	20	
2-Chlorotoluene	0.0426	0.0050	mg/kg wet	0.05000		85	67-124	3	20	
4-Chlorotoluene	0.0434	0.0050	mg/kg wet	0.05000		87	71-126	1	20	
4-Isopropyltoluene	0.0442	0.0050	mg/kg wet	0.05000		88	68-129	2	20	
Acetone	0.126	0.020	mg/kg wet	0.1000		126	29-198	5	20	
Benzene	0.0421	0.0050	mg/kg wet	0.05000		84	74-127	3	20	
Bromobenzene	0.0431	0.0050	mg/kg wet	0.05000		86	73-125	0.4	20	
Bromochloromethane	0.0425	0.0050	mg/kg wet	0.05000		85	72-134	0.8	20	
Bromodichloromethane	0.0450	0.0050	mg/kg wet	0.05000		90	75-122	1	20	
Bromoform	0.0463	0.0050	mg/kg wet	0.05000		93	66-135	1	20	
Bromomethane	0.0415	0.010	mg/kg wet	0.05000		83	20-180	5	20	
Carbon Tetrachloride	0.0452	0.0050	mg/kg wet	0.05000		90	64-143	3	20	
Chlorobenzene	0.0424	0.0050	mg/kg wet	0.05000		85	74-118	1	20	
Chloroethane	0.0404	0.010	mg/kg wet	0.05000		81	33-149	4	20	
Chloroform	0.0438	0.0050	mg/kg wet	0.05000		88	73-127	1	20	
Chloromethane	0.0366	0.010	mg/kg wet	0.05000		73	45-143	4	20	
cis-1,2-Dichloroethylene	0.0429	0.0050	mg/kg wet	0.05000		86	76-134	0.7	20	
cis-1,3-Dichloropropylene	0.0441	0.0050	mg/kg wet	0.05000		88	71-125	0.6	20	
Dibromochloromethane	0.0444	0.0050	mg/kg wet	0.05000		89	73-122	0.5	20	
Dichlorodifluoromethane	0.0389	0.010	mg/kg wet	0.05000		78	26-146	4	20	
Ethylbenzene	0.0430	0.0050	mg/kg wet	0.05000		86	74-128	1	20	
Isopropyl Ether	0.0437	0.0050	mg/kg wet	0.05000		87	59-159	1	20	
Isopropylbenzene (Cumene)	0.0430	0.0050	mg/kg wet	0.05000		86	68-126	2	20	
m,p-Xylenes	0.0871	0.010	mg/kg wet	0.1000		87	75-124	2	20	
Methyl Butyl Ketone (2-Hexanone)	0.0482	0.020	mg/kg wet	0.05000		96	61-157	0.4	20	
Methyl Ethyl Ketone (2-Butanone)	0.0512	0.020	mg/kg wet	0.05000		102	63-149	0.3	20	
Methyl Isobutyl Ketone	0.0442	0.020	mg/kg wet	0.05000		88	57-162	2	20	

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Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9H0310 - 5035

LCS Dup (P9H0310-BSD1)										
Prepared & Analyzed: 08/19/19										
Methylene Chloride	0.0412	0.0050	mg/kg wet	0.05000		82	74-129	0.2	20	
Methyl-tert-Butyl Ether	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	0.6	20	
Naphthalene	0.0426	0.010	mg/kg wet	0.05000		85	57-157	0.4	20	
n-Butylbenzene	0.0448	0.0050	mg/kg wet	0.05000		90	65-135	3	20	
n-Propylbenzene	0.0432	0.0050	mg/kg wet	0.05000		86	67-130	2	20	
o-Xylene	0.0441	0.0050	mg/kg wet	0.05000		88	74-126	0.3	20	
sec-Butylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	66-131	2	20	
Styrene	0.0445	0.0050	mg/kg wet	0.05000		89	77-121	2	20	
tert-Butylbenzene	0.0432	0.0050	mg/kg wet	0.05000		86	67-132	3	20	
Tetrachloroethylene	0.0425	0.0050	mg/kg wet	0.05000		85	68-130	6	20	
Toluene	0.0426	0.0050	mg/kg wet	0.05000		85	71-129	2	20	
trans-1,2-Dichloroethylene	0.0430	0.0050	mg/kg wet	0.05000		86	73-132	3	20	
trans-1,3-Dichloropropylene	0.0444	0.0050	mg/kg wet	0.05000		89	68-123	0.9	20	
Trichloroethylene	0.0435	0.0050	mg/kg wet	0.05000		87	75-133	4	20	
Trichlorofluoromethane	0.0419	0.010	mg/kg wet	0.05000		84	44-146	8	20	
Vinyl acetate	0.0467	0.010	mg/kg wet	0.05000		93	85-161	2	20	
Vinyl chloride	0.0404	0.010	mg/kg wet	0.05000		81	48-147	6	20	
Xylenes, total	0.131	0.015	mg/kg wet	0.1500		87	74-126	1	20	
Surrogate: 4-Bromofluorobenzene	50.0		ug/L	50.00		100	70-130			
Surrogate: Dibromofluoromethane	50.3		ug/L	50.00		101	84-123			
Surrogate: Toluene-d8	49.6		ug/L	50.00		99	76-129			

Batch P9H0347 - 5035

Blank (P9H0347-BLK1)										
Prepared & Analyzed: 08/20/19										
Benzene	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	50.2		ug/L	50.00		100	70-130			
Surrogate: Dibromofluoromethane	53.2		ug/L	50.00		106	84-123			
Surrogate: Toluene-d8	48.9		ug/L	50.00		98	76-129			



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 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9H0347 - 5035

LCS (P9H0347-BS1)		Prepared & Analyzed: 08/20/19								
Benzene	0.0533	0.0050	mg/kg wet	0.05000		107	74-127			
Ethylbenzene	0.0547	0.0050	mg/kg wet	0.05000		109	74-128			
m,p-Xylenes	0.111	0.010	mg/kg wet	0.1000		111	75-124			
o-Xylene	0.0558	0.0050	mg/kg wet	0.05000		112	74-126			
Toluene	0.0546	0.0050	mg/kg wet	0.05000		109	71-129			
Xylenes, total	0.167	0.015	mg/kg wet	0.1500		111	74-126			
Surrogate: 4-Bromofluorobenzene	48.7		ug/L	50.00		97	70-130			
Surrogate: Dibromofluoromethane	51.6		ug/L	50.00		103	84-123			
Surrogate: Toluene-d8	48.6		ug/L	50.00		97	76-129			

LCS Dup (P9H0347-BSD1)		Prepared & Analyzed: 08/20/19								
Benzene	0.0520	0.0050	mg/kg wet	0.05000		104	74-127	2	20	
Ethylbenzene	0.0536	0.0050	mg/kg wet	0.05000		107	74-128	2	20	
m,p-Xylenes	0.109	0.010	mg/kg wet	0.1000		109	75-124	2	20	
o-Xylene	0.0549	0.0050	mg/kg wet	0.05000		110	74-126	2	20	
Toluene	0.0532	0.0050	mg/kg wet	0.05000		106	71-129	2	20	
Xylenes, total	0.164	0.015	mg/kg wet	0.1500		109	74-126	2	20	
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.00		97	70-130			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.00		103	84-123			
Surrogate: Toluene-d8	49.0		ug/L	50.00		98	76-129			

Matrix Spike (P9H0347-MS1)		Source: 9080260-01		Prepared: 08/20/19		Analyzed: 08/21/19	
Benzene	0.0524	0.0055	mg/kg dry	0.05504	BRL	95	60-135
Ethylbenzene	0.0536	0.0055	mg/kg dry	0.05504	BRL	97	44-144
m,p-Xylenes	0.110	0.011	mg/kg dry	0.1101	BRL	100	36-148
o-Xylene	0.0546	0.0055	mg/kg dry	0.05504	BRL	99	43-143
Toluene	0.0528	0.0055	mg/kg dry	0.05504	BRL	96	57-135
Xylenes, total	0.165	0.017	mg/kg dry	0.1651	BRL	100	36-148
Surrogate: 4-Bromofluorobenzene	45.8		ug/L	50.00		92	70-130
Surrogate: Dibromofluoromethane	51.8		ug/L	50.00		104	84-123
Surrogate: Toluene-d8	47.2		ug/L	50.00		94	76-129

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 Time Submitted: 8/16/2019 9:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9H0347 - 5035

Matrix Spike Dup (P9H0347-MSD1)		Source: 9080260-01		Prepared: 08/20/19		Analyzed: 08/21/19				
Benzene	0.0486	0.0054	mg/kg dry	0.05417	BRL	90	60-135	8	20	
Ethylbenzene	0.0499	0.0054	mg/kg dry	0.05417	BRL	92	44-144	7	19	
m,p-Xylenes	0.103	0.011	mg/kg dry	0.1083	BRL	95	36-148	7	20	
o-Xylene	0.0519	0.0054	mg/kg dry	0.05417	BRL	96	43-143	5	17	
Toluene	0.0495	0.0054	mg/kg dry	0.05417	BRL	91	57-135	7	22	
Xylenes, total	0.154	0.016	mg/kg dry	0.1625	BRL	95	36-148	6	20	
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.00		97	70-130			
Surrogate: Dibromofluoromethane	55.3		ug/L	50.00		111	84-123			
Surrogate: Toluene-d8	47.2		ug/L	50.00		94	76-129			

Batch P9H0366 - 5035

Blank (P9H0366-BLK1)				Prepared & Analyzed: 08/21/19	
Benzene	BRL	0.0050	mg/kg wet		
Ethylbenzene	BRL	0.0050	mg/kg wet		
m,p-Xylenes	BRL	0.010	mg/kg wet		
o-Xylene	BRL	0.0050	mg/kg wet		
Toluene	BRL	0.0050	mg/kg wet		
Xylenes, total	BRL	0.015	mg/kg wet		
Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.00	102 70-130
Surrogate: Dibromofluoromethane	60.3		ug/L	50.00	121 84-123
Surrogate: Toluene-d8	47.1		ug/L	50.00	94 76-129

LCS (P9H0366-BS1)

				Prepared & Analyzed: 08/21/19	
Benzene	0.0531	0.0050	mg/kg wet	0.05000	106 74-127
Ethylbenzene	0.0562	0.0050	mg/kg wet	0.05000	112 74-128
m,p-Xylenes	0.115	0.010	mg/kg wet	0.1000	115 75-124
o-Xylene	0.0575	0.0050	mg/kg wet	0.05000	115 74-126
Toluene	0.0550	0.0050	mg/kg wet	0.05000	110 71-129
Xylenes, total	0.173	0.015	mg/kg wet	0.1500	115 74-126
Surrogate: 4-Bromofluorobenzene	48.7		ug/L	50.00	97 70-130
Surrogate: Dibromofluoromethane	54.0		ug/L	50.00	108 84-123
Surrogate: Toluene-d8	48.9		ug/L	50.00	98 76-129

Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
 Attn: Michael Wang
 2501 Blue Ridge Road, Ste 430 Project No: GN7039
 Raleigh, NC 27607

Prism Work Order: 9080260
 Time Submitted: 8/16/2019 9:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9H0366 - 5035

LCS Dup (P9H0366-BSD1)		Prepared & Analyzed: 08/21/19								
Benzene	0.0494	0.0050	mg/kg wet	0.05000		99	74-127	7	20	
Ethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	74-128	7	20	
m,p-Xylenes	0.107	0.010	mg/kg wet	0.1000		107	75-124	7	20	
o-Xylene	0.0540	0.0050	mg/kg wet	0.05000		108	74-126	6	20	
Toluene	0.0511	0.0050	mg/kg wet	0.05000		102	71-129	7	20	
Xylenes, total	0.161	0.015	mg/kg wet	0.1500		107	74-126	7	20	
Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50.00		98	70-130			
Surrogate: Dibromofluoromethane	53.0		ug/L	50.00		106	84-123			
Surrogate: Toluene-d8	48.5		ug/L	50.00		97	76-129			

Batch P9H0389 - 5035

Blank (P9H0389-BLK1)		Prepared & Analyzed: 08/22/19								
Benzene	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	50.8		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	61.1		ug/L	50.00		122	84-123			
Surrogate: Toluene-d8	47.1		ug/L	50.00		94	76-129			

LCS (P9H0389-BS1)

LCS (P9H0389-BS1)		Prepared & Analyzed: 08/22/19								
Benzene	0.0502	0.0050	mg/kg wet	0.05000		100	74-127			
Ethylbenzene	0.0535	0.0050	mg/kg wet	0.05000		107	74-128			
m,p-Xylenes	0.111	0.010	mg/kg wet	0.1000		111	75-124			
o-Xylene	0.0542	0.0050	mg/kg wet	0.05000		108	74-126			
Toluene	0.0520	0.0050	mg/kg wet	0.05000		104	71-129			
Xylenes, total	0.165	0.015	mg/kg wet	0.1500		110	74-126			
Surrogate: 4-Bromofluorobenzene	47.1		ug/L	50.00		94	70-130			
Surrogate: Dibromofluoromethane	55.3		ug/L	50.00		111	84-123			
Surrogate: Toluene-d8	44.9		ug/L	50.00		90	76-129			



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 Raleigh, NC 27607

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 Time Submitted: 8/16/2019 9:15:00AM

Volatiles Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9H0389 - 5035										
LCS Dup (P9H0389-BSD1)										
Prepared & Analyzed: 08/22/19										
Benzene	0.0473	0.0050	mg/kg wet	0.05000		95	74-127	6	20	
Ethylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	74-128	7	20	
m,p-Xylenes	0.104	0.010	mg/kg wet	0.1000		104	75-124	6	20	
o-Xylene	0.0514	0.0050	mg/kg wet	0.05000		103	74-126	5	20	
Toluene	0.0489	0.0050	mg/kg wet	0.05000		98	71-129	6	20	
Xylenes, total	0.155	0.015	mg/kg wet	0.1500		104	74-126	6	20	
Surrogate: 4-Bromofluorobenzene	47.0		ug/L	50.00		94	70-130			
Surrogate: Dibromofluoromethane	53.8		ug/L	50.00		108	84-123			
Surrogate: Toluene-d8	48.6		ug/L	50.00		97	76-129			
Matrix Spike (P9H0389-MS1)										
Source: 9080260-19										
Prepared: 08/22/19 Analyzed: 08/23/19										
Benzene	0.0476	0.0057	mg/kg dry	0.05685	BRL	84	60-135			
Ethylbenzene	0.0509	0.0057	mg/kg dry	0.05685	BRL	90	44-144			
m,p-Xylenes	0.107	0.011	mg/kg dry	0.1137	BRL	94	36-148			
o-Xylene	0.0492	0.0057	mg/kg dry	0.05685	BRL	87	43-143			
Toluene	0.0487	0.0057	mg/kg dry	0.05685	BRL	86	57-135			
Xylenes, total	0.156	0.017	mg/kg dry	0.1705	BRL	91	36-148			
Surrogate: 4-Bromofluorobenzene	46.8		ug/L	50.00		94	70-130			
Surrogate: Dibromofluoromethane	60.8		ug/L	50.00		122	84-123			
Surrogate: Toluene-d8	46.1		ug/L	50.00		92	76-129			
Matrix Spike Dup (P9H0389-MSD1)										
Source: 9080260-19										
Prepared: 08/22/19 Analyzed: 08/23/19										
Benzene	0.0501	0.0057	mg/kg dry	0.05696	BRL	88	60-135	5	20	
Ethylbenzene	0.0491	0.0057	mg/kg dry	0.05696	BRL	86	44-144	4	19	
m,p-Xylenes	0.104	0.011	mg/kg dry	0.1139	BRL	91	36-148	3	20	
o-Xylene	0.0490	0.0057	mg/kg dry	0.05696	BRL	86	43-143	0.5	17	
Toluene	0.0511	0.0057	mg/kg dry	0.05696	BRL	90	57-135	5	22	
Xylenes, total	0.153	0.017	mg/kg dry	0.1709	BRL	89	36-148	2	20	
Surrogate: 4-Bromofluorobenzene	45.0		ug/L	50.00		90	70-130			
Surrogate: Dibromofluoromethane	61.7		ug/L	50.00		123	84-123			
Surrogate: Toluene-d8	46.6		ug/L	50.00		93	76-129			

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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 P9H0434 - 5035										
Blank (P9H0434-BLK1)										
Prepared & Analyzed: 08/26/19										
Benzene	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	51.0		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	46.7		ug/L	50.00		93	84-123			
Surrogate: Toluene-d8	49.6		ug/L	50.00		99	76-129			
LCS (P9H0434-BS1)										
Prepared & Analyzed: 08/26/19										
Benzene	0.0513	0.0050	mg/kg wet	0.05000		103	74-127			
Ethylbenzene	0.0516	0.0050	mg/kg wet	0.05000		103	74-128			
m,p-Xylenes	0.100	0.010	mg/kg wet	0.1000		100	75-124			
o-Xylene	0.0501	0.0050	mg/kg wet	0.05000		100	74-126			
Toluene	0.0516	0.0050	mg/kg wet	0.05000		103	71-129			
Xylenes, total	0.150	0.015	mg/kg wet	0.1500		100	74-126			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.00		104	70-130			
Surrogate: Dibromofluoromethane	44.7		ug/L	50.00		89	84-123			
Surrogate: Toluene-d8	51.0		ug/L	50.00		102	76-129			
LCS Dup (P9H0434-BSD1)										
Prepared & Analyzed: 08/26/19										
Benzene	0.0480	0.0050	mg/kg wet	0.05000		96	74-127	7	20	
Ethylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	74-128	7	20	
m,p-Xylenes	0.0930	0.010	mg/kg wet	0.1000		93	75-124	7	20	
o-Xylene	0.0468	0.0050	mg/kg wet	0.05000		94	74-126	7	20	
Toluene	0.0481	0.0050	mg/kg wet	0.05000		96	71-129	7	20	
Xylenes, total	0.140	0.015	mg/kg wet	0.1500		93	74-126	7	20	
Surrogate: 4-Bromofluorobenzene	52.6		ug/L	50.00		105	70-130			
Surrogate: Dibromofluoromethane	43.7		ug/L	50.00		87	84-123			
Surrogate: Toluene-d8	50.0		ug/L	50.00		100	76-129			



Geosyntec Consultants of NC, PC - Raleigh Project: NCDOT R-5726 West End
Attn: Michael Wang
2501 Blue Ridge Road, Ste 430 Project No: GN7039
Raleigh, NC 27607

Prism Work Order: 9080260
Time Submitted: 8/16/2019 9:15:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9H0353 - Solids, Dry Weight										
Duplicate (P9H0353-DUP1)		Source: 9080260-04		Prepared: 08/21/19		Analyzed: 08/22/19				
% Solids	91.4	0.100	% by Weight		97.8			7	20	
Duplicate (P9H0353-DUP2)		Source: 9080260-14		Prepared: 08/21/19		Analyzed: 08/22/19				
% Solids	96.6	0.100	% by Weight		90.5			7	20	
Batch P9H0369 - Solids, Dry Weight										
Duplicate (P9H0369-DUP1)		Source: 9080260-20		Prepared: 08/22/19		Analyzed: 08/23/19				
% Solids	93.3	0.100	% by Weight		93.3			0.02	20	
Duplicate (P9H0369-DUP2)		Source: 9080260-23		Prepared: 08/22/19		Analyzed: 08/23/19				
% Solids	97.6	0.100	% by Weight		97.8			0.1	20	
Batch P9H0406 - Solids, Dry Weight										
Duplicate (P9H0406-DUP1)		Source: 9080260-39		Prepared: 08/23/19		Analyzed: 08/26/19				
% Solids	88.6	0.100	% by Weight		89.4			0.9	20	

Sample Extraction Data

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
9080260-01	P9H0353	30 g	30 g	08/21/19 10:40
9080260-02	P9H0353	30 g	30 g	08/21/19 10:40
9080260-03	P9H0353	30 g	30 g	08/21/19 10:40
9080260-04	P9H0353	30 g	30 g	08/21/19 10:40
9080260-05	P9H0353	30 g	30 g	08/21/19 10:40
9080260-06	P9H0353	30 g	30 g	08/21/19 10:40
9080260-07	P9H0353	30 g	30 g	08/21/19 10:40
9080260-08	P9H0353	30 g	30 g	08/21/19 10:40
9080260-09	P9H0353	30 g	30 g	08/21/19 10:40
9080260-10	P9H0353	30 g	30 g	08/21/19 10:40
9080260-11	P9H0353	30 g	30 g	08/21/19 10:40
9080260-12	P9H0353	30 g	30 g	08/21/19 10:40
9080260-13	P9H0353	30 g	30 g	08/21/19 10:40
9080260-14	P9H0353	30 g	30 g	08/21/19 10:40
9080260-15	P9H0353	30 g	30 g	08/21/19 10:40
9080260-16	P9H0353	30 g	30 g	08/21/19 10:40
9080260-17	P9H0353	30 g	30 g	08/21/19 10:40
9080260-18	P9H0369	30 g	30 g	08/22/19 11:13
9080260-19	P9H0369	30 g	30 g	08/22/19 11:13
9080260-20	P9H0369	30 g	30 g	08/22/19 11:13
9080260-21	P9H0369	30 g	30 g	08/22/19 11:13
9080260-22	P9H0369	30 g	30 g	08/22/19 11:13
9080260-23	P9H0369	30 g	30 g	08/22/19 11:13
9080260-24	P9H0369	30 g	30 g	08/22/19 11:13
9080260-25	P9H0369	30 g	30 g	08/22/19 11:13
9080260-26	P9H0369	30 g	30 g	08/22/19 11:13
9080260-27	P9H0369	30 g	30 g	08/22/19 11:13
9080260-28	P9H0369	30 g	30 g	08/22/19 11:13
9080260-29	P9H0369	30 g	30 g	08/22/19 11:13
9080260-30	P9H0369	30 g	30 g	08/22/19 11:13
9080260-31	P9H0369	30 g	30 g	08/22/19 11:13
9080260-32	P9H0369	30 g	30 g	08/22/19 11:13
9080260-33	P9H0369	30 g	30 g	08/22/19 11:13
9080260-34	P9H0369	30 g	30 g	08/22/19 11:13
9080260-35	P9H0369	30 g	30 g	08/22/19 11:13
9080260-36	P9H0369	30 g	30 g	08/22/19 11:13
9080260-37	P9H0369	30 g	30 g	08/22/19 11:13
9080260-38	P9H0406	30 g	30 g	08/23/19 12:00
9080260-39	P9H0406	30 g	30 g	08/23/19 12:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
9080260-01	P9H0347	3.89 g	5 mL	08/20/19 10:00
9080260-02	P9H0347	4.18 g	5 mL	08/20/19 10:00
9080260-03	P9H0347	5.17 g	5 mL	08/20/19 10:00
9080260-04	P9H0347	4.83 g	5 mL	08/20/19 10:00
9080260-05	P9H0389	3.77 g	5 mL	08/22/19 10:00
9080260-06	P9H0347	5.45 g	5 mL	08/20/19 10:00
9080260-07	P9H0347	5.48 g	5 mL	08/20/19 10:00
9080260-08	P9H0347	5.5 g	5 mL	08/20/19 10:00
9080260-09	P9H0347	4.69 g	5 mL	08/20/19 10:00
9080260-10	P9H0347	4.68 g	5 mL	08/20/19 10:00
9080260-11	P9H0347	4.72 g	5 mL	08/20/19 10:00
9080260-12	P9H0347	4.64 g	5 mL	08/20/19 10:00
9080260-13	P9H0310	5.74 g	5 mL	08/19/19 10:00
9080260-14	P9H0366	5.34 g	5 mL	08/21/19 10:00

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Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
9080260-15	P9H0347	3.3 g	5 mL	08/20/19 10:00
9080260-16	P9H0347	6.27 g	5 mL	08/20/19 10:00
9080260-17	P9H0347	5.54 g	5 mL	08/20/19 10:00
9080260-18	P9H0347	4.89 g	5 mL	08/20/19 10:00
9080260-19	P9H0389	6.23 g	5 mL	08/22/19 10:00
9080260-20	P9H0389	5.21 g	5 mL	08/22/19 10:00
9080260-21	P9H0434	4.84 g	5 mL	08/26/19 11:00
9080260-22	P9H0389	5.69 g	5 mL	08/22/19 10:00
9080260-23	P9H0310	5.96 g	5 mL	08/19/19 10:00
9080260-24	P9H0310	4.34 g	5 mL	08/19/19 10:00
9080260-25	P9H0389	4.74 g	5 mL	08/22/19 10:00
9080260-26	P9H0389	4.6 g	5 mL	08/22/19 10:00
9080260-27	P9H0389	3.91 g	5 mL	08/22/19 10:00
9080260-28	P9H0389	4.18 g	5 mL	08/22/19 10:00
9080260-29	P9H0389	4.28 g	5 mL	08/22/19 10:00
9080260-30	P9H0389	4.06 g	5 mL	08/22/19 10:00
9080260-31	P9H0389	4.36 g	5 mL	08/22/19 10:00
9080260-32	P9H0389	5.01 g	5 mL	08/22/19 10:00
9080260-33	P9H0389	5.13 g	5 mL	08/22/19 10:00
9080260-34	P9H0389	3.66 g	5 mL	08/22/19 10:00
9080260-35	P9H0389	3.79 g	5 mL	08/22/19 10:00
9080260-36	P9H0389	6.93 g	5 mL	08/22/19 10:00
9080260-37	P9H0434	4.94 g	5 mL	08/26/19 11:00
9080260-38	P9H0389	5.45 g	5 mL	08/22/19 10:00
9080260-39	P9H0434	5.81 g	5 mL	08/26/19 11:00

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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

Page 56 of 60

CHAIN OF CUSTODY RECORD

LAB USE ONLY

Client Company Name: Geosyntec
 Report To/Contact Name: Michael Wang
 Reporting Address: 2501 Blue Ridge Rd.
Ste 420 Raleigh, NC, 27607

Project Name: NC DOT, West End
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
 Invoice To: Geosyntec
 Address: _____

YES NO N/A

Samples INTACT upon arrival? YES NO N/A

Received ON WET ICE? YES NO N/A

PROPER PRESERVATIVES indicated? YES NO N/A

Received WITHIN HOLDING TIMES? YES NO N/A

CUSTODY SEALS INTACT? YES NO N/A

VOLATILES rec'd W/OUT HEADSPACE? YES NO N/A

PROPER CONTAINERS used? YES NO N/A

TEMP: Therm ID: TC119 Observed: 3.2 °C / Corr: 3.3 °C

Phone: 919-551-5334 Fax (Yes) (No): No
 Email Address: mwang@geosyntec.com
 EDD Type: PDF Excel Other
 Site Location Name: NC DOT, West End
 Site Location Physical Address: West End, NC

Purchase Order No./Billing Reference: 61V7039
 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)

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	ANALYSIS REQUESTED	REMARKS	PRISM LAB NO. ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
SB13-01-75-800	8/13/19	1030	Soil	VOA	4		Multiple			01
SB13-02-7-7.5	8/12/19	1100	Soil							02
SB13-03-6.5-7.0	8/12/19	1130	Soil							03
SB43-01-4-5.5	8/13/19	1340								04
SB43-02-6.5-7	8/13/19	1400								05
SB43-03-7-7.5	8/13/19	1430								06
SB43-04-7.5-8	8/13/19	1445								07
SB66867-01-5-5.5	8/13/19	0840								08
SB66867-02-4-4.5	8/13/19	0910								09
SB66867-03-6.5-7	8/13/19	1020	Soil	VOA	4		Multiple			10

Sampler's Signature: Michael Wang
 Reinquished By: (Signature) [Signature]
 Reinquished By: (Signature) [Signature]
 Reinquished By: (Signature) _____

Sampled By (Print Name) Michael Wang Affiliation _____
 Received By: (Signature) _____
 Received By: (Signature) _____
 Received For Prism Laboratories By: [Signature]
 Date: 8-16-19 Military/Hours: 0915
 Date: 8/15/19 Military/Hours: 1605

Additional Comments: _____
 PRESS DOWN FIRMLY - 3 COPIES
 PRISM USE ONLY
 Site Arrival Time: _____
 Site Departure Time: _____
 Field Tech Fee: _____
 Mileage: _____

SEE REVERSE FOR TERMS & CONDITIONS
 ORIGINAL

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

Client Company Name: Greenspring

Report To/Contact Name: Michael Wang

Reporting Address: 2501 Blue Ridge Rd.

Ste 430, Raleigh, NC, 27607

Phone: 979-551-5334 Fax (Yes) (No): NO

Email Address: mwang@greenspring.com

EDD Type: PDF Excel Other

Site Location Name: Norot West End

Site Location Physical Address: West End, NC

CHAIN OF CUSTODY RECORD

PAGE 2 OF 4 QUOTE # TO ENSURE PROPER BILLING: 61V 7039

Project Name: Norot West End UST Project: (Yes) (No) (NO)

Short Hold Analysis: (Yes) (No) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements

Invoice To: Greenspring

Address: _____

Purchase Order No./Billing Reference: 61V 7039

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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RECEIVED WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMP. Therm ID: <u>2119</u> Observed: <u>32</u> °C / Contr: <u>33</u> °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	ANALYSIS REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
SB66867-04-5560	8/13/19	0945	Soil	VOA	4		Multiple			11
SB66867-05-75	8/13/19	1110	Soil							12
SB66867-06-758	8/13/19	1220	Soil							13
SB69-01-60-65	8/12/19	1300								14
SB69-02-40-45	8/12/19	1330								15
SB69-03-5-55	8/12/19	1400								16
SB69-04-5-55	8/12/19	1445								17
SB69-05-9510	8/12/19	1525								18
SB69-06-99.5	8/12/19	1615								19
SB69-07-5055	8/12/19	1645	Soil	VOA	4		Multiple			20

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): Michael Wang Affiliation: _____

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.

Relinquished By (Signature): [Signature] Received By (Signature): _____ Date: 8/14/19 Military/Hours: 1600

Relinquished By (Signature): [Signature] Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received For Prism Laboratories By: [Signature] Date: 8-16-19 Date: 0915

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.

Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: UST: NC SC GROUNDWATER: NC SC DRINKING WATER: NC SC SOLID WASTE: NC SC RCRA: NC SC CERCLA NC SC LANDFILL NC SC OTHER: NC SC SC

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

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

SEE REVERSE FOR TERMS & CONDITIONS

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

Client Company Name: Greensync

Report To/Contact Name: Michael Wang

Reporting Address: 7501 Blue Ridge Rd Ste 420 Raleigh, NC 27607

Phone: 919-551-5334 Fax (Yes) (No): NO

Email Address: mwang@greensync.com

EDD Type: PDF Excel Other

Site Location Name: WDDOT West End

Site Location Physical Address: West End, NC

CHAIN OF CUSTODY RECORD

PAGE 3 OF 4 QUOTE # TO ENSURE PROPER BILLING: 6W7039

Project Name: WDDOT West End UST Project: (Yes) (NO) (NO)

Short Hold Analysis: (Yes) (NO) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements

Invoice To: Greensync

Address: _____

Purchase Order No./Billing Reference: 6W7039

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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMP: Therm ID: <u>1019</u> Observed: <u>31.2</u> °C / Corr: <u>3.3</u> °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	ANALYSIS REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
SB69-08-6-6.5	8/13/19	1300	Soil	VOA	4		Multiple			21
SB78-01-7-7.5	8/13/19	1550								22
SB78-02-5-5.6	8/14/19	0825								23
SB78-03-6-6.5	8/14/19	0900								24
SB78-04-6-5.7	8/14/19	0930								25
SB89-01-5-5.5	8/15/19	0900								26
SB89-02-5-5.6	8/15/19	0940								27
SB89-03-6-5.7	8/15/19	1030								28
SB89-04-7-7.5	8/15/19	1130								29
SB102-01-2-5.3	8/14/19	1050	Soil	VOA	4		Multiple			30

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Sampler's Signature: [Signature] Sampled By (Print Name): Michael Wang Affiliation: _____

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.

Relinquished By (Signature): [Signature] Received By (Signature): [Signature] Date: 8/15/19 Military/Hours: [Signature]

Relinquished By (Signature): [Signature] Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Relinquished By (Signature): _____ Received By (Signature): _____ Date: _____ Military/Hours: _____

Additional Comments:

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 4 OF 4 QUOTE # TO ENSURE PROPER BILLING: 6477037

Project Name: West End UST Project: (Yes) (No) NO
Short Hold Analysis: (Yes) (No) NO
*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
Invoice To: Greystone
Address: _____

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
Received ON WET ICE? YES NO N/A
PROPER PRESERVATIVES indicated? YES NO N/A
Received WITHIN HOLDING TIMES? YES NO N/A
CUSTODY SEALS INTACT? YES NO N/A
VOLATILES rec'd W/OUT HEADSPACE? YES NO N/A
PROPER CONTAINERS used? YES NO N/A
TEMP: Therm ID: 3.2 °C / Corr: 3.3 °C
Observed: 3.2 °C / Corr: 3.3 °C

Client Company Name: Greystone
Report To/Contact Name: Michael Wang
Reporting Address: 2501 Blue Ridge Rd
Ste 420 Raleigh, NC 27607
Phone: 979-551-5334 Fax (Yes) (No): NO
Email Address: mwang@greystone.com
EDD Type: PDF Excel Other _____
Site Location Name: NOOT West End
Site Location Physical Address: West End, NC

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 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)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC _____ DOD _____ FL _____ NC
SC _____ OTHER _____ N/A _____
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	ANALYSIS REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
SB102-02-55-6	8/14/19	1135	Soil	VOA	4		Multiple		BTEx ONLY	31
SB102-03-77.5	8/14/19	1300								32
SB102-04-71.5	8/14/19	1330								33
SB102-05-45.5	8/14/19	1400								34
SB102-06-05-1	8/14/19	1450								35
SB102-07-7.5-8	8/14/19	1535								36
SB102-08-8-8.5	8/14/19	1605								37
SB102-09-8.5-9	8/14/19	1645								38
SB102-10-9-9.5	8/14/19	1720	Soil	VOA	4		Multiple		BTEx ONLY	39

Sampler's Signature: [Signature] Sampled By (Print Name): Michael Wang Affiliation: _____

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.

Relinquished By: (Signature) [Signature] Received By: (Signature) _____ Date: 8-16-19 Military/Hours: 0915

Relinquished By: (Signature) _____ Received By: (Signature) _____ Date: _____ Military/Hours: _____

Relinquished By: (Signature) _____ Received For Prism Laboratories By: [Signature] Date: 8-16-19 COC Group No.: 9080260

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.

Additional Comments: _____

PRISM USE ONLY

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL