

**Via Email**

August 19, 2019

NC DOT Geotechnical Unit  
GeoEnvironmental Section  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

Attention: Mr. Gordon Box

Re: Phase II Investigation Report - Parcel 5  
NC DOT State Project No. R-4707  
WBS Element #36599.1.2  
Greensboro, Guilford County, North Carolina  
H&H Job No. ROW-603

Dear Gordon:

Please find the attached electronic copy of the Phase II Investigation report for the Delta Phoenix, Inc. property (NC DOT Parcel 5) located in Greensboro, Guilford County, North Carolina. Please return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

***Hart & Hickman, PC***



David Graham, PG  
Senior Project Geologist



Matt Bramblett, PE  
Principal

Attachment

# Phase II Investigation Delta Phoenix, Inc. Property

## NC DOT Parcel 5 Greensboro, Guilford County North Carolina

H&H Job No. ROW-603  
State Project R-4707  
WBS Element #36599.1.2  
August 19, 2019



#C-1269 Engineering  
#-245 Geology

2923 South Tryon Street, Suite 100  
Charlotte, NC 28203  
704.586.0007 main

3921 Sunset Ridge Rd, Suite 301  
Raleigh, NC 27607  
919.847.4241 main

[www.harthickman.com](http://www.harthickman.com)

**Phase II Investigation  
Delta Phoenix, Inc. Property - NC DOT Parcel 5  
Greensboro, Guilford County, North Carolina  
H&H Project ROW-603**

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**Phase II Investigation**  
**Delta Phoenix, Inc. Property - NC DOT Parcel 5**  
**Greensboro, Guilford County, North Carolina**  
**H&H Project ROW-603**

**1.0 Introduction and Background**

Hart & Hickman, PC (H&H) has prepared this Phase II Investigation (Phase II) report documenting assessment activities performed at the Delta Phoenix, Inc. property (Parcel 5) in Greensboro, Guilford County, North Carolina. Parcel 5 is located at 4820 US Highway 29 North. The Parcel 5 property is currently occupied by Wysong & Miles (Wysong), a metal working machine manufacturer. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's May 10, 2019 proposal.

The purpose of this assessment was to collect data to evaluate the potential for underground storage tank (UST) systems and the presence or absence of impacted soil in proposed right of way and construction easement areas on the subject property related to proposed road improvements along US Highway 29 North (State Project R-4707). The NC DOT project includes proposed road improvements and installation of storm water drainage piping and catch basins. A site location map is included as Figure 1, and a site map is presented as Figure 2. NC DOT plan sheets depicting Parcel 5 are included in Appendix A.

H&H searched the North Carolina Department of Environmental Quality (NC DEQ) Laserfiche website for incident files for the Parcel 5 property to better target potential UST system areas and to find locations of previously reported impacts. NC DEQ Incident No. NCD982156812 was identified for the Wysong facility on Parcel 5.

According to Delta Environmental Consultants, Inc. *UST Removal/Closure Report* dated August 1991, a 4,000-gallon hydraulic oil UST was removed from the site in July 1991. Low level concentrations of oil and grease (O&G) were detected in the soil samples collected beneath the UST. The O&G results were below NC DEQ Action Levels in place at the time. The former UST was located outside of proposed NC DOT work areas.

Based on H&H *Phase I Remedial Action Plan (RAP)*, dated April 15, 2010, the Wysong facility has operated as a metal working machinery manufacturer since the 1960s. Degreasing operations during manufacture of precision machine tools at Wysong resulted in the release of the chlorinated solvent 1,1,1-trichloroethane (1,1,1-TCA). Two separate release areas have been identified at the site including near a former 1,500-gallon 1,1,1-TCA AST at the northeast corner of the Wysong facility and a former machine coolant disposal basin located on the southwest side of the facility. Based on extensive site investigation and remedial data, the majority of chlorinated solvent released at the Wysong facility was associated with a leaking line below the 1,500-gallon 1,1,1-TCA AST. Remedial efforts including soil excavation, soil vapor extraction (SVE) systems, and groundwater recovery have been conducted at the site to address soil and groundwater impacts associated with the releases. The releases and associated impacted soil source areas were located outside of proposed NC DOT work areas.

Over 30 monitoring wells have been installed on the Wysong property and adjacent properties to the southwest and northeast to investigate groundwater impacts associated with the releases at Wysong. No monitoring wells are depicted in NC DOT work areas on Parcel 5.

Groundwater at the Wysong site is impacted with volatile organic compounds (VOCs), including 1,1,1-TCA, 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, 1,4-dioxane, and other VOCs above the 15A NCAC 2L .0202 Groundwater Quality Standards (2L Standards). Surface water to the northeast of the Wysong facility is also impacted with VOCs associated with the releases at Wysong. The impacted groundwater plume associated with the Wysong release extends from the site facility to off-site properties to the northeast. The H&H Phase I RAP indicates another release of 1,1,1-TCA to groundwater from an off-site source upgradient and to the southwest near a residential subdivision and a former Texaco service station. This release appears to have migrated onto the southwestern portion of the Wysong property and comingled with the Wysong groundwater plume.

With the exception of the southwestern portion of the property, the groundwater impacts and surface water impacts appear to be located outside of proposed NC DOT work areas. The RAP indicates that groundwater is typically encountered at 25-40 ft below ground surface (bgs) except

in low lying areas near surface water bodies where it is typically 5-10 ft bgs. No surface water bodies are located in the southwestern portion of the property near NC DOT work areas. Groundwater was not identified in soil borings (maximum depth of 12 ft bgs) advanced at the site during the recent Phase II activities conducted by H&H. Pertinent information from environmental documents are included in Appendix B.

Based on the location of the Wysong facility and associated soil and groundwater impacts, the Phase II investigation activities were only conducted in the proposed NC DOT right of way and construction easement areas in the southwestern portion of Parcel 5. The Phase II activities recently conducted by H&H on Parcel 5 are discussed below.

## **2.0 Geophysical Survey**

Prior to advancing soil borings, H&H reviewed the results of a geophysical survey performed on Parcel 5 by ESP Associates, Inc. (ESP) between June 10 and 20, 2019. ESP's work consisted of metal detection using a Geonics EM61 MK2 instrument and ground penetrating radar (GPR) to identify potential geophysical anomalies and potential USTs at the site. The geophysical survey results indicate that no suspected USTs were identified in proposed NC DOT work areas. Other anomalies were present in the survey data but were attributed to known surface metallic objects, buried utilities, or storm drains, etc. The anomalies were not characteristic signatures of potential USTs. ESP's report, including figures depicting the results of the geophysical survey, is provided in Appendix C.

## **3.0 Soil Assessment**

### **3.1 Soil Sampling**

H&H contracted with South Atlantic Environmental Drilling and Construction Co. (SAEDACCO) of Fort Mill, South Carolina to advance soil borings on Parcel 5. On June 25, 2019, eleven soil borings (5-1 through 5-11) were advanced in proposed NC DOT work areas in the southwestern portion of Parcel 5 using a direct push technology (DPT) drill rig. Prior to conducting soil borings,

underground utilities were marked by the NC 811 public utility locator and by ESP for private underground utilities. Borings were also cleared up to a five foot depth by hand auger.

The soil borings were advanced to maximum depths of 12 ft bgs. To facilitate the selection of soil samples for laboratory analysis, soil from each boring was screened continuously for the presence of VOCs with a photoionization detector (PID). Additionally, H&H observed the soil for visual and olfactory indications of impacts. Based on PID readings, there was a moderate indication of potential impacts in boring 5-4 (0-2 ft); however, no staining or odors were observed in the sample. Soil samples were collected at depths of 0 to 2 ft bgs from each boring for laboratory analysis. Soil boring logs are included in Appendix D. GPS coordinate data for the soil borings are summarized in Table 1, and the boring locations are shown on Figures 2, 3A, and 3B.

H&H submitted a total of eleven soil samples from borings 5-1 through 5-11 for laboratory analysis. The soil samples were placed into laboratory supplied sample containers using nitrile glove-covered hands. The containers were then labeled as to content, analyses requested, sample date and time, and sampler's name. The samples were placed in an iced coolers upon collection and were subsequently submitted to Red Lab, LLC of Wilmington, NC under standard chain-of-custody protocol for analysis of total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO) and diesel-range organics (DRO) using QED ultraviolet fluorescence (UVF) technology. Samples were also sent to Pace Analytical of Huntersville, NC for analysis of VOCs using EPA Method 8260 and for 1,4-Dioxane using EPA Method 8260 Select Ion Monitoring (SIM). Soil sample depths and analytical results are summarized in Table 2. Laboratory analytical data sheets and chain-of-custody documentation are provided in Appendix E. The analytical results are discussed below.

Upon completion of soil sampling activities, soil cuttings generated during drilling activities were containerized in 55-gallon metal drums and staged on site. The soil borings were filled with bentonite pellets, and the surface was patched with soil to match the existing ground surface.

### 3.2 Soil Analytical Results

Concentrations of TPH DRO (ranging from 0.28 mg/kg to 23.7 mg/kg) and/or TPH GRO (ranging from 0.72 mg/kg to 2.8 mg/kg) were detected in soil samples 5-1 through 5-11 collected from Parcel 5. The DRO and GRO concentrations do not exceed the NC DEQ Action Levels of 100 mg/kg and 50 mg/kg, respectively. Low level concentrations of acetone were detected in each soil sample collected at the site below the NC DEQ Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs). Acetone is a common laboratory-introduced contaminant. A low level concentration of 2-butanone (MEK) was also detected in soil sample 5-3 below the PSRGs. MEK is also a common laboratory-introduced contaminant.

Based on laboratory analytical results and PID readings, impacted soil above NC DEQ Action Levels and IHSB PSRGs does not appear to be present at the site in the vicinity of the soil boring locations. However, if impacted soil is encountered during the NC DOT construction activities, it should be properly managed and disposed.

### 4.0 Investigative Derived Waste

Soil cuttings and decontamination water generated during the soil sampling activities were containerized in 55-gallon drums. Soil sample analytical data from Parcel 5 were used for profiling the soil investigation derived waste (IDW) drum. A sample from the soil drum was also analyzed for total RCRA metals using EPA Method 6010/7471. Low level metals were detected in the soil sample collected from the IDW soil drum. A sample of the IDW water drum was analyzed for total VOCs, 1,4-dioxane, and total RCRA metals. Low level metals, 1,4-dioxane, and acetone were detected in the water sample collected from the IDW water drum. Based on the analytical data, the soil and water drums were disposed as non-hazardous waste. The IDW drums were removed by EVO Corporation of Winston-Salem, NC for proper off-site disposal.

Laboratory analytical data sheets and chain-of-custody documentation for IDW are provided in Appendix E. Please note that analytical data for IDW drums from a separate parcel are included

in the attached analytical report. The non-hazardous waste disposal manifests are provided in Appendix F.

## **5.0 Summary and Regulatory Considerations**

H&H has reviewed available NC DEQ incident files, geophysical survey results, and analytical results of soil samples collected at the Parcel 5 property in Greensboro, Guilford County, North Carolina. Parcel 5 is currently occupied by Wysong and Miles. Review of NC DEQ incident files indicate a hydraulic oil UST was removed from the site in 1991. Low level concentrations of oil and grease below NC DEQ Action Levels in place at that time were detected in soil beneath the UST. The former UST was located outside of proposed NC DOT work areas. Soil and groundwater on Parcel 5 are impacted with VOCs associated with historical use and releases of 1,1,1-TCA at the Wysong site and from an off-site groundwater source to the southwest. Impacted soil source areas associated with the 1,1,1-TCA releases at the Wysong facility are located outside of proposed NC DOT work areas. Groundwater impacted with VOCs appears to be located beneath proposed NC DOT work areas in the southwestern portion of the site. No groundwater was encountered in soil borings advanced in NC DOT work areas during the recent Phase II activities conducted by H&H.

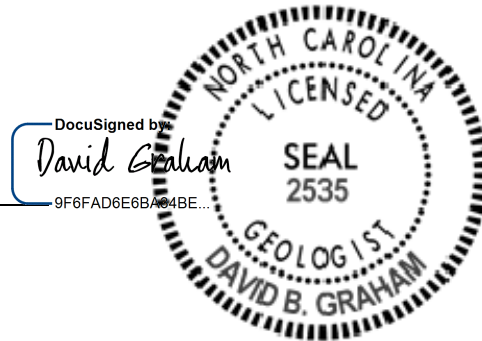
Based on the geophysical survey, no suspected USTs were identified in proposed NC DOT work areas on Parcel 5. Analytical results of soil samples collected by H&H indicate concentrations of TPH DRO and GRO below NC DEQ Action Levels and concentrations of VOCs below the NC DEQ IHSB PSRGs in soil samples collected on Parcel 5. The VOC detections may be laboratory-introduced contaminants.

NC DOT plans indicate a proposed cut for road improvement activities and proposed drainage structures in the proposed NC DOT work areas on Parcel 5. Impacted media is not expected to be encountered in proposed cut areas or areas of proposed drainage structures. If impacted soil is encountered during road construction activities, it should be properly managed and disposed at a permitted facility. If impacted groundwater is encountered and dewatering activities are required during NC DOT construction activities, the groundwater should be properly managed via

NPDES permit or disposed at permitted facility. If a UST is encountered during construction activities, the UST system(s) and their contents should be removed in accordance with NC DEQ regulations and properly disposed.

## 6.0 Signature Page

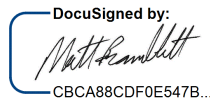
This report was prepared by:



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David Graham, PG  
Senior Project Geologist for  
Hart & Hickman, PC

This report was reviewed by:



---

Matt Bramblett, PE  
Principal and Project Manager for  
Hart & Hickman, PC

Not considered final unless all signatures are completed.



**Table 1**  
**Soil Boring GPS Coordinate Data**  
**NC DOT Parcel 5**  
**Greensboro, Guilford County, North Carolina**  
**H&H Job No. ROW-603**

| Sample ID | Latitude   | Longitude   |
|-----------|------------|-------------|
| 5-1       | 36.1691746 | -79.7159287 |
| 5-2       | 36.1688916 | -79.7161571 |
| 5-3       | 36.1685925 | -79.7163629 |
| 5-4       | 36.1682667 | -79.7165986 |
| 5-5       | 36.1680006 | -79.7167786 |
| 5-6       | 36.1677338 | -79.7169779 |
| 5-7       | 36.1671942 | -79.7173115 |
| 5-8       | 36.1667616 | -79.7176415 |
| 5-9       | 36.1666484 | -79.7177760 |
| 5-10      | 36.1664435 | -79.7179256 |
| 5-11      | 36.1683120 | -79.7165576 |

**Notes:**

GPS coordinate data points collected using a Trimble GeoExplorer 6000 series unit with external satellite for increased accuracy.

**Table 2 (Page 1 of 1)**  
**Soil Analytical Results**  
**NC DOT Parcel 5**  
**Greensboro, Guilford County, North Carolina**  
**H&H Job No. ROW-603**

| Sample ID                               | 5-1       | 5-2       | 5-3       | 5-4       | 5-5       | 5-6       | 5-7       | 5-8       | 5-9       | 5-10      | 5-11      | Regulatory Standard |                                    |                                   |                       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|------------------------------------|-----------------------------------|-----------------------|
|   | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | 0-2       | NC DEQ Action Level | IHSB Residential PSRG <sup>1</sup> | IHSB Industrial PSRG <sup>2</sup> | IHSB POG <sup>3</sup> |
| Sample Depth (ft)                       | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 |                     |                                    |                                   |                       |
| Sample Date                             |           |           |           |           |           |           |           |           |           |           |           |                     |                                    |                                   |                       |
| <b><u>TPH-DRO/GRO (UVF) (mg/kg)</u></b> |           |           |           |           |           |           |           |           |           |           |           |                     |                                    |                                   |                       |
| Diesel-Range Organics (DRO)             | <0.37     | <0.32     | 0.28      | 1.3       | 1.7       | 0.6       | 23.7      | 0.56      | 0.61      | 4.1       | 17.1      | 100                 | --                                 | --                                | --                    |
| Gasoline-Range Organics (GRO)           | 0.72      | 1.1       | <0.28     | <0.74     | 2.8       | <0.6      | <0.56     | <0.56     | <0.61     | <0.53     | 1.2       | 50                  | --                                 | --                                | --                    |
| <b><u>VOCs (8260) (mg/kg)</u></b>       |           |           |           |           |           |           |           |           |           |           |           |                     |                                    |                                   |                       |
| Acetone                                 | 0.13      | 0.11 J    | 0.27      | 0.039 J   | 0.049 J   | 0.026 J   | 0.055 J   | 0.068 J   | 0.011 J   | 0.029 J   | 0.061 J   | --                  | 12,000                             | 140,000                           | 25                    |
| 2-Butanone (MEK)                        | <0.0034   | <0.0034   | 0.0067 J  | <0.0037   | <0.0036   | <0.0028   | <0.0025   | <0.0027   | <0.0027   | <0.0027   | <0.0032   | --                  | 5,500                              | 40,000                            | 17                    |
| <b><u>VOCs (8260 SIM) (mg/kg)</u></b>   |           |           |           |           |           |           |           |           |           |           |           |                     |                                    |                                   |                       |
| 1,4-Dioxane                             | <0.0036   | <0.0033   | <0.0046   | <0.0035   | <0.0030   | <0.0033   | <0.0036   | <0.0024   | <0.0028   | <0.0028   | <0.0031   | --                  | 5.4                                | 25                                | 0.012                 |

**Notes:**

1. NC DEQ Inactive Hazardous Sites Branch (IHSB) Residential Health-Based Preliminary Soil Remediation Goals (PSRGs) (May 2019).
2. NC DEQ IHSB Industrial Health-Based PSRG (May 2019).
3. NC DEQ IHSB Protection of Groundwater (POG) PSRG (May 2019).

UVF = QED Ultraviolet fluorescence technology; TPH = Total Petroleum Hydrocarbons

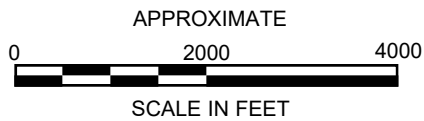
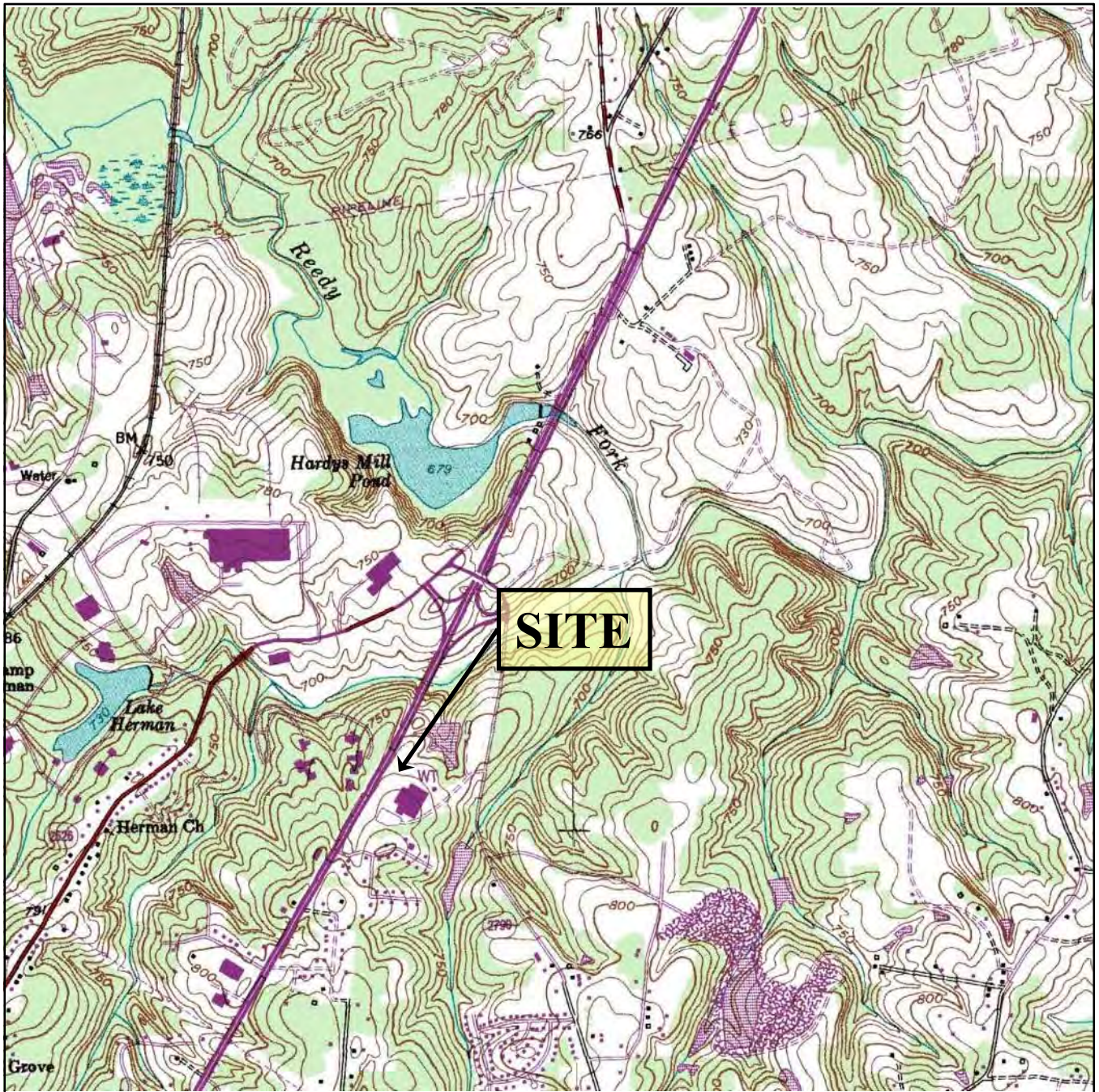
VOCs = Volatile Organic Compounds; SIM = Select Ion Monitoring; -- = Not Applicable

Laboratory analytical method follows parameter in parentheses.

Gray = Value below the Reporting Limit (RL) for UVF Data and Method Detection Limit (MDL) for remaining data.

J = Estimated concentration above the laboratory MDL and below the laboratory reporting limit (RL).



With the exception of 1,4-Dioxane, only detected compounds shown.



U.S.G.S. QUADRANGLE MAP

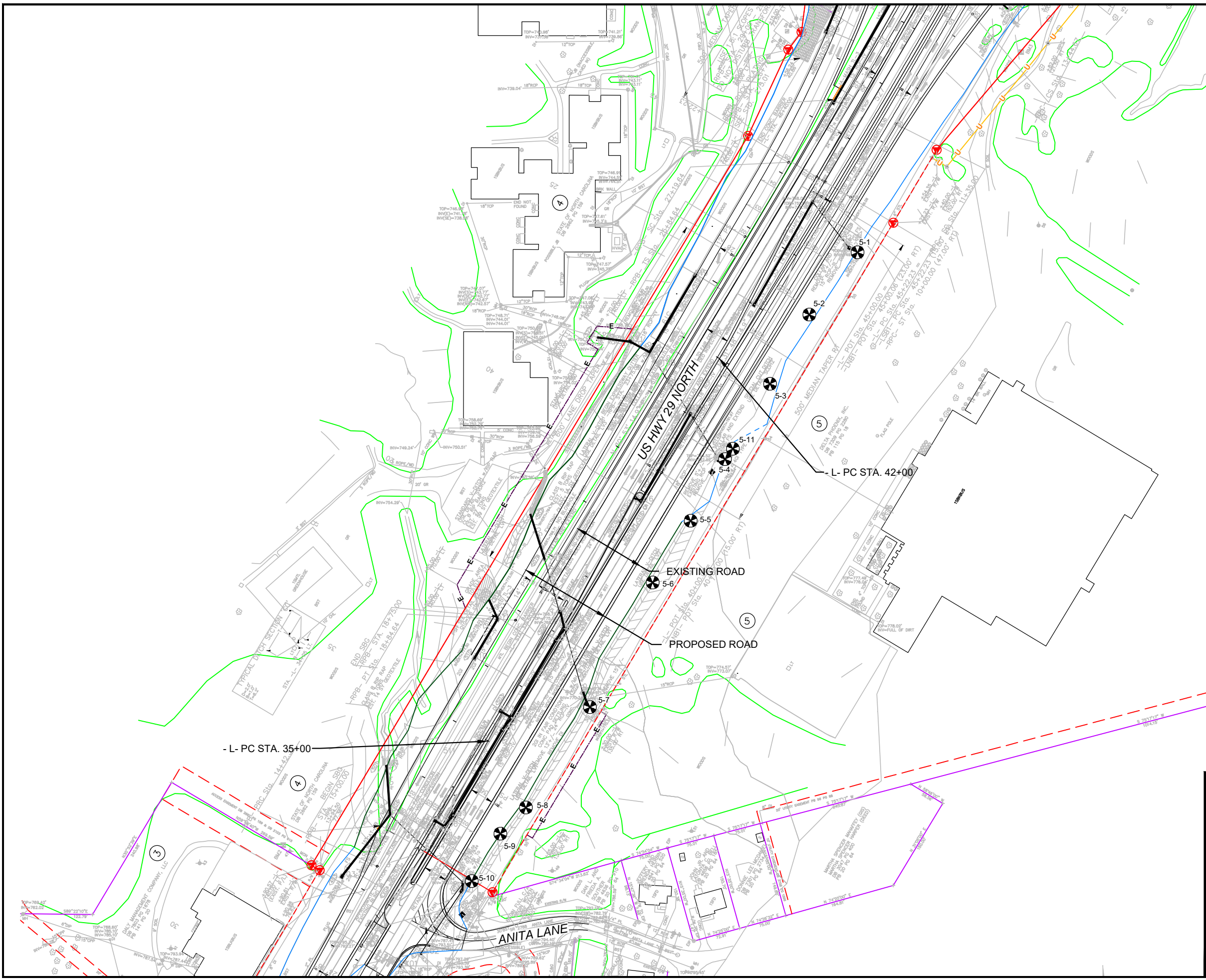
**BROWNS SUMMIT, NORTH CAROLINA, 1994**

QUADRANGLE  
7.5 MINUTE SERIES (TOPOGRAPHIC)

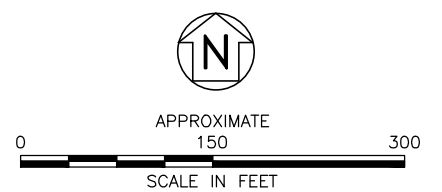
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|         |  2923 South Tryon Street-Suite 100<br>Charlotte, North Carolina 28203<br>704-586-0007 (p) 704-586-0373 (f) |                |
|         |    |                |
| DATE:   | 8-2-19   | REVISION NO: 0 |
| JOB NO: | ROW-603  | FIGURE: 1      |



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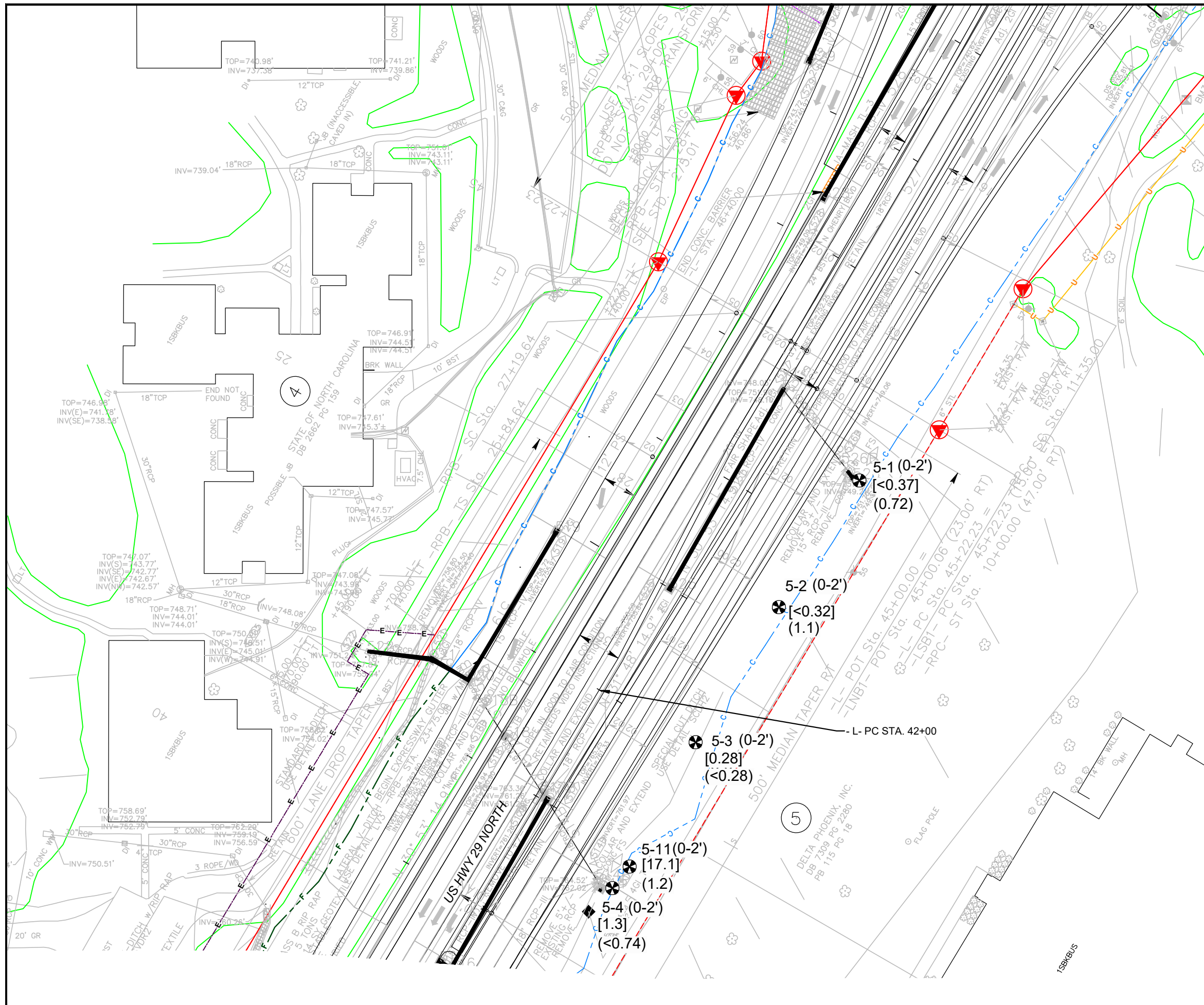
- LEGEND**
- PROPERTY LINE
  - VEGETATION / WOODED
  - EXISTING RIGHT-OF-WAY
  - PROPOSED RIGHT-OF-WAY AND CONTROLLED ACCESS
  - PROPOSED UTILITY EASEMENT
  - PROPOSED CONSTRUCTION EASEMENT
  - PROPOSED CUT LINE
  - PROPOSED FILL LINE
  - NC DOT PARCEL ID
  - SOIL SAMPLE LOCATION
  - SAMPLE ID
  - EXISTING DRAINAGE PIPE / PROPOSED DRAINAGE PIPE
  - PROPOSED CATCH BASIN



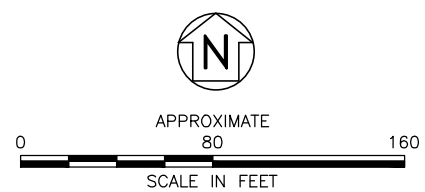
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| PROJECT<br><b>NC DOT PARCEL 5<br/>4820 US HIGHWAY 29 NORTH<br/>GREENSBORO, NORTH CAROLINA</b>  |                |
|  |                |
| 2923 South Tryon Street-Suite 100<br>Charlotte, North Carolina 28203<br>704-586-0007(p) 704-586-0373(f)<br>License # C-1269 / #C-245 Geology |                |
| DATE: 8-19-19  | REVISION NO. 0 |
| JOB NO. ROW-603  | FIGURE NO. 2   |




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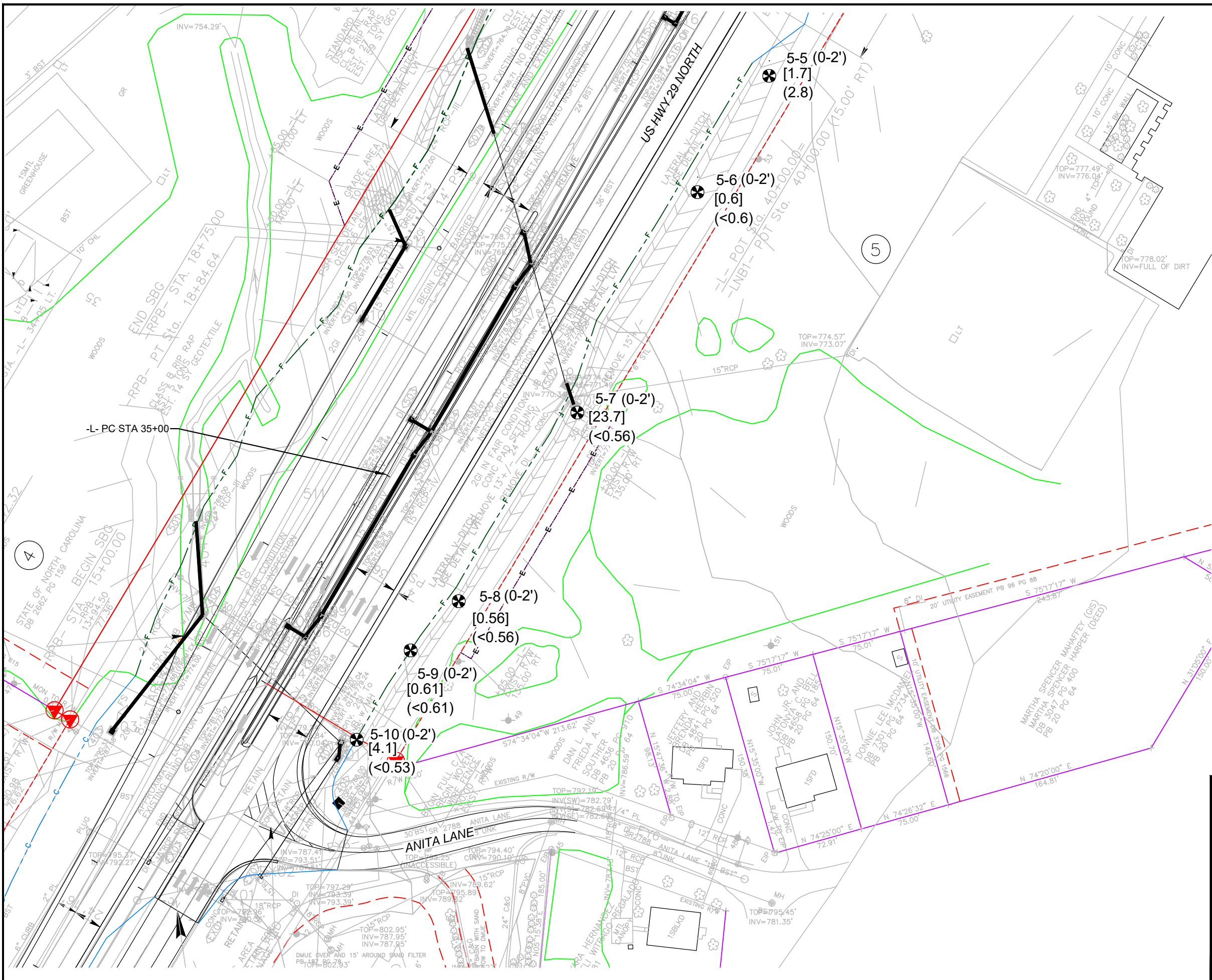


- LEGEND**
- PROPERTY LINE
  - VEGETATION / WOODED
  - EXISTING RIGHT-OF-WAY
  - ● PROPOSED RIGHT-OF-WAY AND CONTROLLED ACCESS
  - U PROPOSED UTILITY EASEMENT
  - E PROPOSED CONSTRUCTION EASEMENT
  - C PROPOSED CUT LINE
  - F PROPOSED FILL LINE
  - ⑤ NC DOT PARCEL ID
  - ⊗ SOIL SAMPLE LOCATION
  - [<math>[<0.37</math>] DIESEL RANGE TPH (mg/kg)
  - (0.72) GASOLINE RANGE TPH (mg/kg)
  - 5-1 (0-2') SAMPLE ID / DEPTH
  - EXISTING DRAINAGE PIPE / PROPOSED DRAINAGE PIPE
  - PROPOSED CATCH BASIN

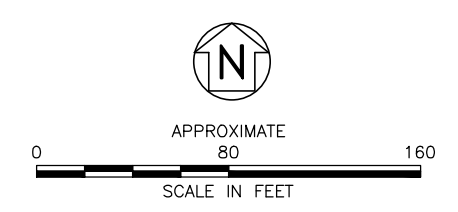


|  |                |
|--|----------------|
| TITLE<br><b>SOIL ANALYTICAL RESULTS - NORTH</b>  |                |
| PROJECT<br>NC DOT PARCEL 5<br>4820 US HIGHWAY 29 NORTH<br>GREENSBORO, NORTH CAROLINA   |                |
|  2923 South Tryon Street-Suite 100<br>Charlotte, North Carolina 28203<br>704-586-0007(p) 704-586-0373(f)<br>License # C-1269 / #C-245 Geology |                |
| DATE: 8-16-19  | REVISION NO. 0 |
| JOB NO. ROW-603  | FIGURE NO. 3A  |





- LEGEND**
- PROPERTY LINE
  - VEGETATION / WOODED
  - - - EXISTING RIGHT-OF-WAY
  - PROPOSED RIGHT-OF-WAY AND CONTROLLED ACCESS
  - E-E- PROPOSED CONSTRUCTION EASEMENT
  - - - C - - - PROPOSED CUT LINE
  - - - F - - - PROPOSED FILL LINE
  - 5** NC DOT PARCEL ID
  - SOIL SAMPLE LOCATION
  - [1.7]** DIESEL RANGE TPH (mg/kg)
  - (2.8)** GASOLINE RANGE TPH (mg/kg)
  - 5-5 (0-2')** SAMPLE ID / DEPTH
  - EXISTING DRAINAGE PIPE / PROPOSED DRAINAGE PIPE
  - PROPOSED CATCH BASIN



|  |                |
|--|----------------|
| TITLE<br><b>SOIL ANALYTICAL RESULTS - SOUTH</b>  |                |
| PROJECT<br><b>NC DOT PARCEL 5<br/>4820 US HIGHWAY 29 NORTH<br/>GREENSBORO, NORTH CAROLINA</b>  |                |
|  |                |
| 2923 South Tryon Street-Suite 100<br>Charlotte, North Carolina 28203<br>704-586-0007(p) 704-586-0373(f)<br>License # C-1269 / #C-245 Geology |                |
| DATE: 8-16-19  | REVISION NO. 0 |
| JOB NO. ROW-603  | FIGURE NO. 3B  |

S:\444-Master Projects\NC DOT Right-of-Way - ROW\ROW-603\ROW-603 Parcels-rows\603-R3.dwg, FIG 3B, 8/19/2019 9:26:28 AM, erichardson

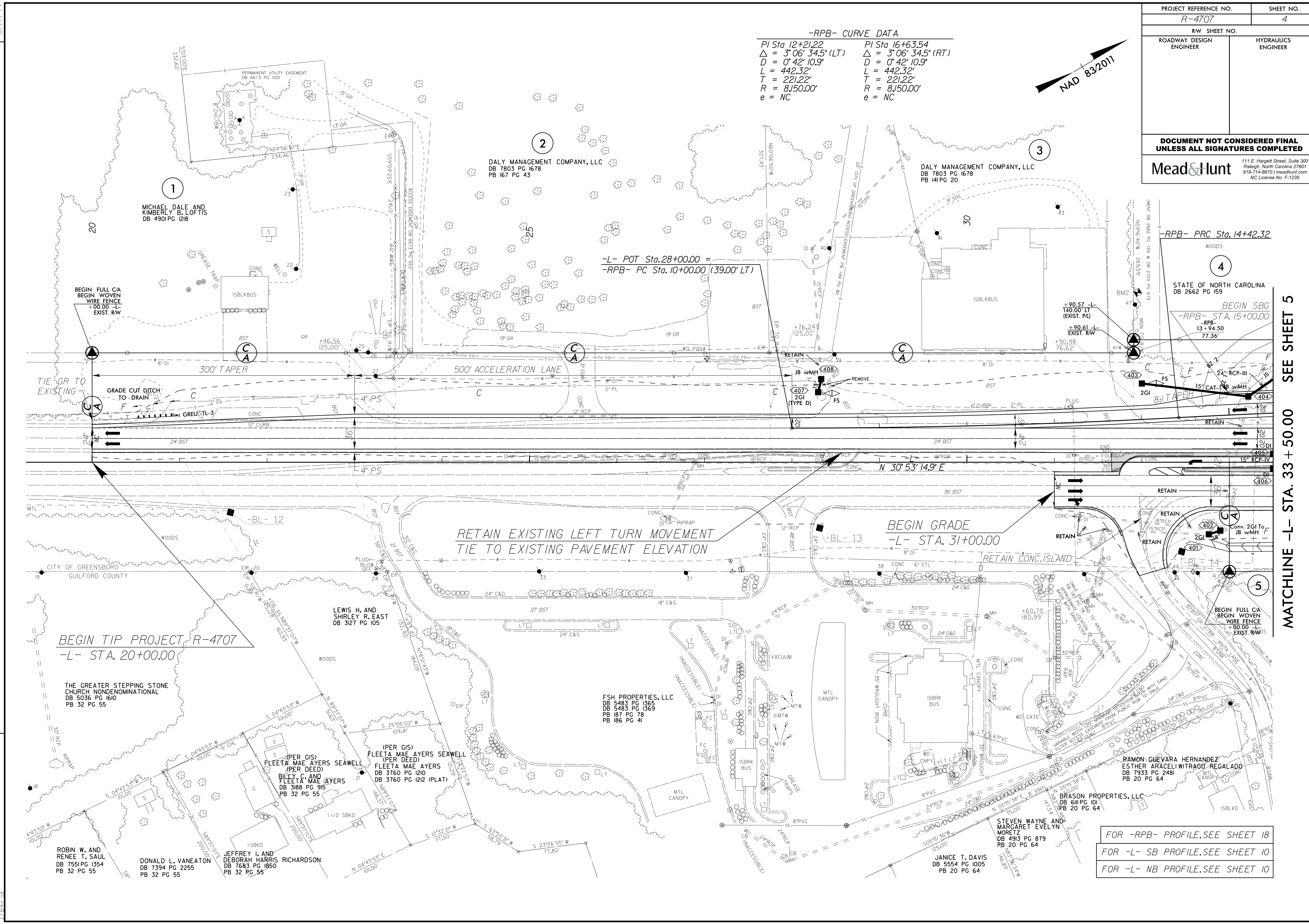
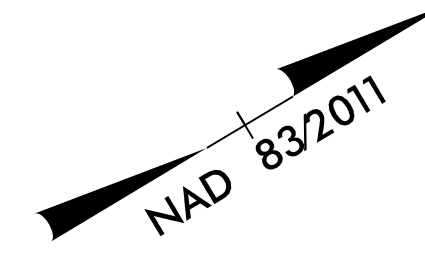
**Appendix A**  
**NC DOT Preliminary Plan**



|  |        |  |   |
|--|--------|--|---|
| PROJECT REFERENCE NO.  | R-4707 | SHEET NO.  | 4 |
| RW SHEET NO.   |        | HYDRAULICS ENGINEER  |   |
| ROADWAY DESIGN ENGINEER  |        | HYDRAULICS ENGINEER  |   |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b> |        |  |   |
| <b>Mead&amp;Hunt</b>   |        | 111 E. Hargett Street, Suite 300<br>Raleigh, North Carolina 27601<br>919-714-8870   meadandhunt.com<br>NC License No. F-1235 |   |

-RPB- CURVE DATA

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| PI Sta 12+21.22                     | PI Sta 16+63.54                     |
| $\Delta = 3^{\circ} 06' 34.5" (LT)$ | $\Delta = 3^{\circ} 06' 34.5" (RT)$ |
| $D = 0^{\circ} 42' 10.9"$           | $D = 0^{\circ} 42' 10.9"$           |
| $L = 442.32'$                       | $L = 442.32'$                       |
| $T = 221.22'$                       | $T = 221.22'$                       |
| $R = 8,150.00'$                     | $R = 8,150.00'$                     |
| $e = NC$                            | $e = NC$                            |



REVISIONS

MATCHLINE -L- STA. 33 + 50.00 SEE SHEET 5

FOR -RPB- PROFILE, SEE SHEET 18  
 FOR -L- SB PROFILE, SEE SHEET 10  
 FOR -L- NB PROFILE, SEE SHEET 10

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|  |        |  |   |
|--|--------|--|---|
| PROJECT REFERENCE NO.  | R-4707 | SHEET NO.  | 5 |
| RW SHEET NO.   |        | HYDRAULICS ENGINEER  |   |
| ROADWAY DESIGN ENGINEER  |        | HYDRAULICS ENGINEER  |   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |        |  |   |
| <b>Mead&amp;Hunt</b>   |        | 111 E. Hargett Street, Suite 300<br>Raleigh, North Carolina 27601<br>919-714-8870   meadandhunt.com<br>NC License No. F-1235 |   |

**-L- CURVE DATA**  
 PI Sta 52+64.99  
 $\Delta = 3^{\circ} 42' 45.0''$  (LT)  
 $D = 0' 15' 00.0''$   
 $L = 1,485.00'$   
 $T = 742.76'$   
 $R = 22,918.31'$   
 $e = NC$

**-LSBI- CURVE DATA**  
 PI Sta 47+72.06  
 $\Delta = 1^{\circ} 15' 00.6''$  (LT)  
 $D = 0' 15' 00.7''$   
 $L = 499.65'$   
 $T = 249.83'$   
 $R = 22,899.31'$   
 $e = NC$

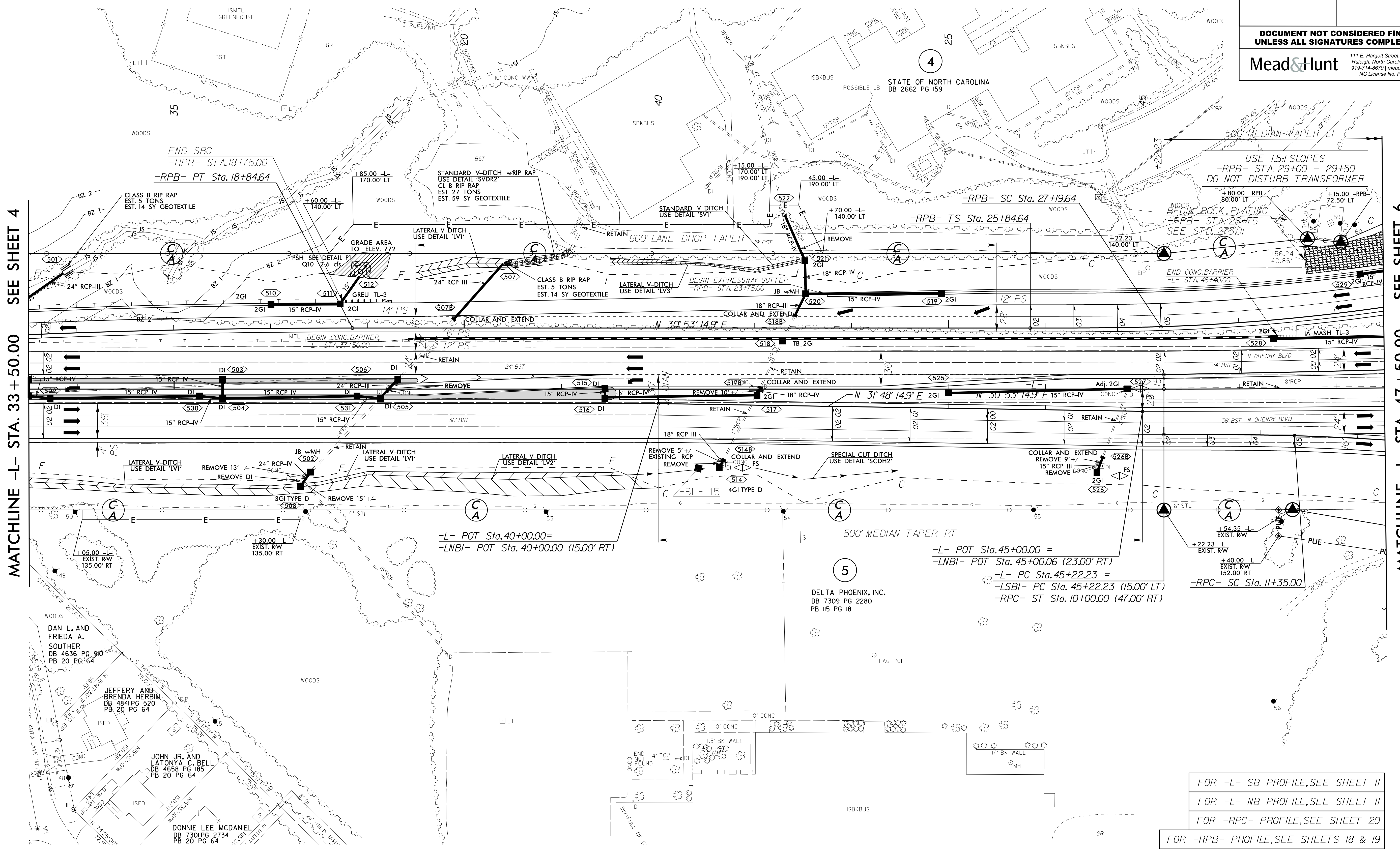
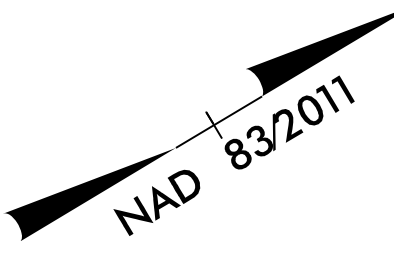
**-RPB- CURVE DATA**  
 PI Sta 16+63.54  
 $\Delta = 3^{\circ} 06' 34.5''$  (RT)  
 $D = 0' 42' 10.9''$   
 $L = 442.32'$   
 $T = 221.22'$   
 $R = 8,150.00'$   
 $e = NC$

**-RPB- CURVE DATA**  
 PIs Sta 26+74.65  
 $\Theta_s = 1^{\circ} 50' 29.9''$   
 $L_s = 135.00'$   
 $LT = 90.00'$   
 $ST = 45.00'$   
 $INC = 45^{\circ}$

**-RPB- CURVE DATA**  
 PI Sta 28+60.83  
 $\Delta = 7^{\circ} 41' 32.6''$  (LT)  
 $D = 2' 43' 42.1''$   
 $L = 281.94'$   
 $T = 141.18'$   
 $R = 2,100.00'$   
 $e = 0.05$

**-RPC- CURVE DATA**  
 PIs Sta 10+90.00  
 $\Theta_s = 1^{\circ} 36' 41.2''$   
 $L_s = 135.00'$   
 $LT = 90.00'$   
 $ST = 45.00'$   
 $INC = 45^{\circ}$

**-RPC- CURVE DATA**  
 PI Sta 12+39.90  
 $\Delta = 5^{\circ} 00' 20.0''$  (RT)  
 $D = 2' 23' 14.4''$   
 $L = 209.67'$   
 $T = 104.90'$   
 $R = 2,400.00'$   
 $e = 0.05$



MATCHLINE -L- STA. 33 + 50.00 SEE SHEET 4

MATCHLINE -L- STA. 47 + 50.00 SEE SHEET 6

USE 1.5:1 SLOPES  
 -RPB- STA. 29+00 - 29+50  
 DO NOT DISTURB TRANSFORMER

BELGIA ROCK PLATING  
 -RPB- STA. 28+75  
 SEE STD. 275.01

END CONC. BARRIER  
 -L- STA. 46+40.00

-L- POT Sta. 40+00.00 =  
 -LNBI- POT Sta. 40+00.00 (15.00' RT)

-L- POT Sta. 45+00.00 =  
 -LNBI- POT Sta. 45+00.06 (23.00' RT)  
 -L- PC Sta. 45+22.23 =  
 -LSBI- PC Sta. 45+22.23 (15.00' LT)  
 -RPC- ST Sta. 10+00.00 (47.00' RT)

-RPC- SC Sta. 11+35.00

FOR -L- SB PROFILE, SEE SHEET 11  
 FOR -L- NB PROFILE, SEE SHEET 11  
 FOR -RPC- PROFILE, SEE SHEET 20  
 FOR -RPB- PROFILE, SEE SHEETS 18 & 19

REVISIONS

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REVISIONS

MATCHLINE -Y4- STA. 11+25.00  
SEE SHEET 8

END CONSTRUCTION  
-Y4- STA. 14+65.00

-Y4- CURVE DATA  
 PI Sta 13+74.94  
 $\Delta = 52^\circ 40' 40.7''$  (RT)  
 $D = 28^\circ 38' 52.4''$   
 $L = 183.88'$   
 $T = 99.02'$   
 $R = 200.00'$

-Y1- CURVE DATA  
 PI Sta 20+29.91  
 $\Delta = 61^\circ 41' 51.8''$  (LT)  
 $D = 7^\circ 09' 43.1''$   
 $L = 861.46'$   
 $T = 477.82'$   
 $R = 800.00'$   
 $e = 0.02$

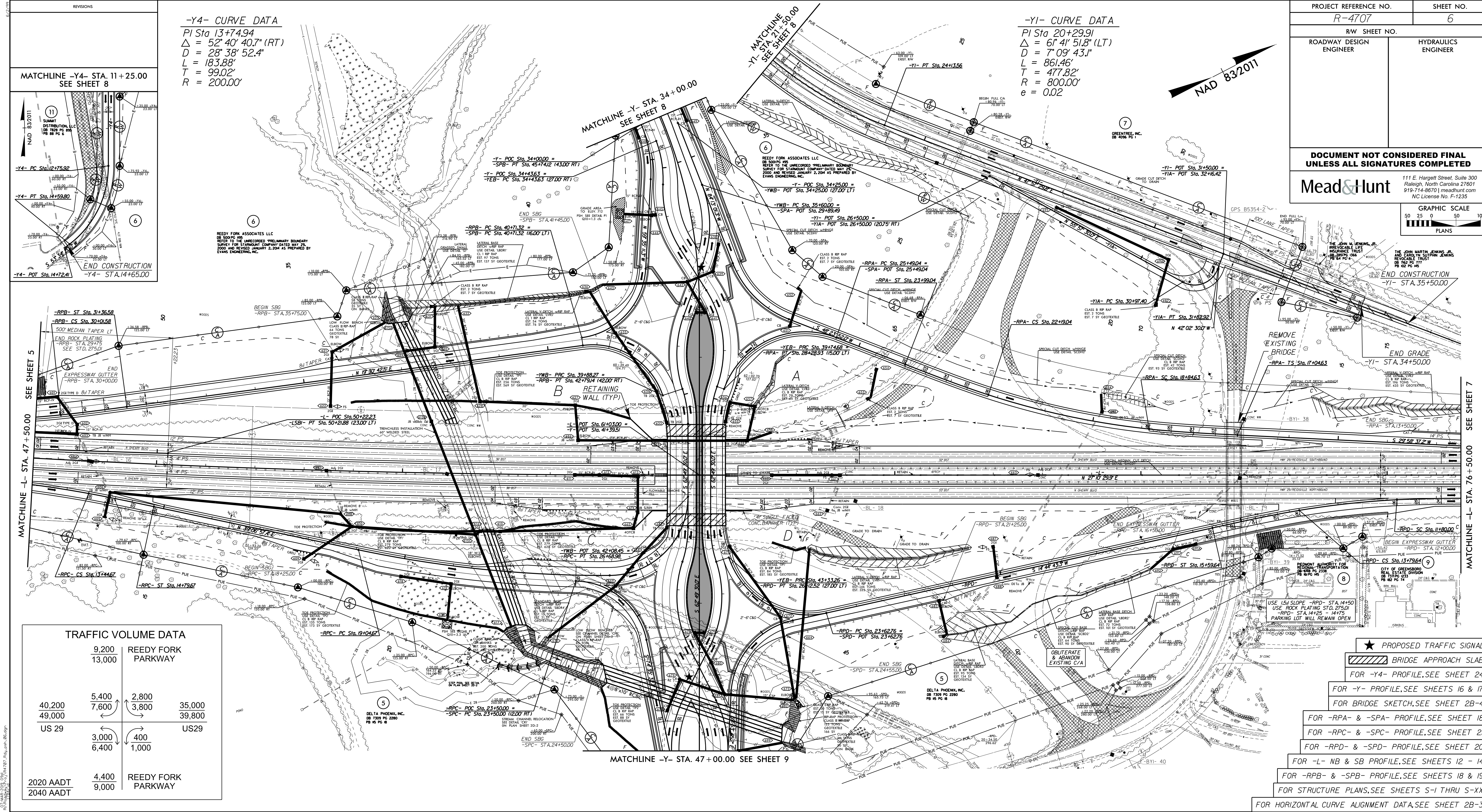
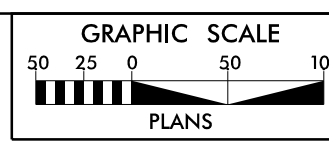


|                                 |                |
|---------------------------------|----------------|
| PROJECT REFERENCE NO.<br>R-4707 | SHEET NO.<br>6 |
|---------------------------------|----------------|

|                         |                     |
|-------------------------|---------------------|
| RW SHEET NO.            |                     |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

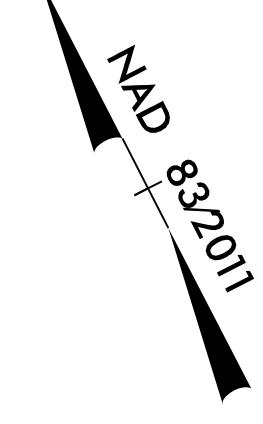
**Mead&Hunt**  
 111 E. Hargett Street, Suite 300  
 Raleigh, North Carolina 27601  
 919-714-8870 | meadandhunt.com  
 NC License No. F-1235



TRAFFIC VOLUME DATA

|           |        |                    |        |
|-----------|--------|--------------------|--------|
|           | 9,200  | REEDY FORK PARKWAY |        |
|           | 13,000 |                    |        |
| 40,200    | 5,400  | 2,800              | 35,000 |
| 49,000    | 7,600  | 3,800              | 39,800 |
| US 29     | 3,000  | 400                | US 29  |
|           | 6,400  | 1,000              |        |
| 2020 AADT | 4,400  | REEDY FORK PARKWAY |        |
| 2040 AADT | 9,000  |                    |        |



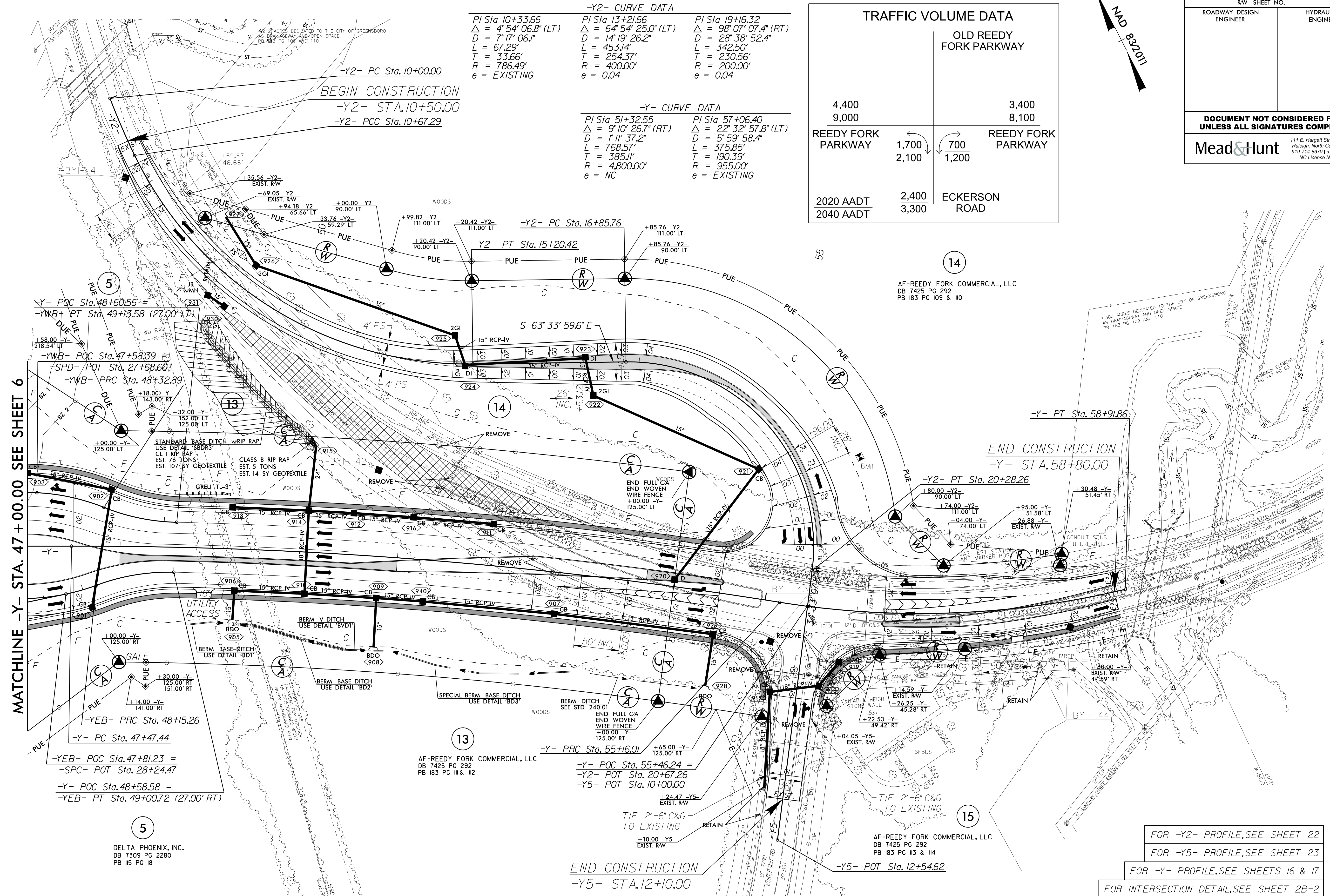


| TRAFFIC VOLUME DATA |       |                        |                    |
|---------------------|-------|------------------------|--------------------|
|                     |       | OLD REEDY FORK PARKWAY |                    |
| 4,400               |       |                        | 3,400              |
| 9,000               |       |                        | 8,100              |
| REEDY FORK PARKWAY  | 1,700 | 700                    | REEDY FORK PARKWAY |
|                     | 2,100 | 1,200                  |                    |
| 2020 AADT           | 2,400 | ECKERSON ROAD          |                    |
| 2040 AADT           | 3,300 |                        |                    |

| -Y2- CURVE DATA                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|
| PI Sta 10+33.66                    | PI Sta 13+21.66                    | PI Sta 19+16.32                    |
| $\Delta = 4^{\circ}54'06.8''$ (LT) | $\Delta = 6^{\circ}54'25.0''$ (LT) | $\Delta = 9^{\circ}07'07.4''$ (RT) |
| D = 7'17'06.1"                     | D = 14'19'26.2"                    | D = 28'38'52.4"                    |
| L = 67.29'                         | L = 453.14'                        | L = 342.50'                        |
| T = 33.66'                         | T = 254.37'                        | T = 230.56'                        |
| R = 786.49'                        | R = 400.00'                        | R = 200.00'                        |
| e = EXISTING                       | e = 0.04                           | e = 0.04                           |

| -Y- CURVE DATA                     |                                     |
|------------------------------------|-------------------------------------|
| PI Sta 51+32.55                    | PI Sta 57+06.40                     |
| $\Delta = 9^{\circ}10'26.7''$ (RT) | $\Delta = 22^{\circ}32'57.8''$ (LT) |
| D = 1'11'37.2"                     | D = 5'59'58.4"                      |
| L = 768.57'                        | L = 375.85'                         |
| T = 385.11'                        | T = 190.39'                         |
| R = 4,800.00'                      | R = 955.00'                         |
| e = NC                             | e = EXISTING                        |



MATCHLINE -Y- STA. 47+00.00 SEE SHEET 6

5  
DELTA PHOENIX, INC.  
DB 1309 PG 2280  
PB 115 PG 18

13  
AF-REEDY FORK COMMERCIAL, LLC  
DB 7425 PG 292  
PB 183 PG III & II2

END CONSTRUCTION  
-Y5- STA. 12+10.00

15  
AF-REEDY FORK COMMERCIAL, LLC  
DB 7425 PG 292  
PB 183 PG III3 & II4

FOR -Y2- PROFILE, SEE SHEET 22  
FOR -Y5- PROFILE, SEE SHEET 23  
FOR -Y- PROFILE, SEE SHEETS 16 & 17  
FOR INTERSECTION DETAIL, SEE SHEET 2B-2

REVISIONS

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**Appendix B**  
**NC DEQ Incident Files**

**UST REMOVAL/CLOSURE REPORT**

**Wysong & Miles Company**

**Greensboro, North Carolina**

**Delta No. 50-88-173.03**

**This report was prepared by:**

**Delta Environmental Consultants, Inc.  
6701 Carmel Road, Suite 200  
Charlotte, North Carolina 28226**

**August 1991**



6701 Carmel Road  
Suite 200  
Charlotte, NC 28226-3901  
705/541-9890  
FAX: 704/543-4035

August 13, 1991

North Carolina Department of Environment,  
Health and Natural Resources  
Winston-Salem Regional Office  
8025 North Point Boulevard  
Winston-Salem, North Carolina 27106

Attention: Mr. Thomas Salley

Subject: UST Removal/Closure  
Wysong & Miles Company  
Greensboro, North Carolina  
Delta No. 50-88-173.03

Dear Mr. Salley:

This report was prepared by Delta Environmental Consultants, Inc. (Delta) on behalf of Wysong & Miles Company regarding removal of an underground storage tank from the premises on July 8, 1991. The report presents required assessment information in accordance with federal, state, and local specifications.

**Site Location and Site Maps**

Wysong and Miles Company is located along U.S. Highway 29 North in Greensboro, North Carolina. Local topographic and site specific maps are included as Figures 1, 2, and 3.

**UST Description**

The UST was excavated and removed from the Wysong and Miles Company property on July 8, 1991. The tank geometry was 64" diameter by 24' long with a total volume of 4000 gallons. The tank was used to store Mobil DTE 25 hydraulic oil. A MSDS sheet of the oil is attached. No other material was stored in the tank according to Wysong and Miles Company representatives. Depth to the top of the tank from land surface was two (2) feet. A map illustrating the tank location, orientation, and underground distribution line location is shown in Figure 3. The distribution line ran underground from the tank to the building wall. Past the building wall, the line ran above ground.

### Soil Sampling and Chemical Analysis

A total of four soil samples were collected from the excavation. One sample was collected from below the distribution line where it elbowed upward out of the ground adjacent to the building. Because the tank length exceeded twenty (20) feet, three soil samples were collected from the native soil beneath the tank. The soil sample locations are illustrated in Figure 3.

The soil samples were collected with an impact sampler and brass sleeves. Samples collected from below the tank were collected from the bucket of the trackhoe used for excavation. Sample depth below the distribution line was two (2) feet below grade whereas the sample depths below the UST were eight (8) feet below grade and one (1) to two (2) feet below the tank bottom. The impact sampler was cleaned between samples with isopropyl alcohol and a deionized water rinse. Dedicated brass sleeves were used for each sample. Upon collection, the samples were packed in ice for next day shipment to the Industrial and Environmental Analysis, Inc. (IEA) via Pony Express. Each sample was submitted for analysis of oil and grease by SW-846 Method 9071. A summary of the soil sample analytical results is presented in Table 1. A copy of the laboratory report is attached.

### Observations

During excavation, no evidence existed to indicate the existence of a tank leak or soil contamination resulting from tank overflows. No odors were detected in the soil during excavation activities or tank removal.

### Backfill

No evidence of soil contamination was observed during soil excavation and tank removal activities. As a result, the tank basin was filled in with the excavated soil and backfill supplied by Bobby's Backhoe service.

### Photographs

Attached are photographs of the UST/distribution line removal.

UST Removal/Closure  
August 13, 1991  
Page 3

Remarks

The recommendations contained in this report represent our professional opinions. These opinions were arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**



Steven S. Gerritsen  
Project Manager  
North Carolina Licensed Geologist #1055

SSG/zga



**TABLE 1**  
**SOIL ANALYTICAL RESULTS**

**WYSONG & MILES COMPANY**  
**GREENSBORO, NORTH CAROLINA**  
**DELTA NO. 50-88-173**

| <u>TARGETED PARAMETER</u> | <u>SOIL SAMPLE</u> |             |             |             |
|---------------------------|--------------------|-------------|-------------|-------------|
|                           | <u>SS-1</u>        | <u>SS-2</u> | <u>SS-3</u> | <u>SS-4</u> |
| Oil & Grease              | 70                 | 35          | 23          | 20          |

All results in mg/kg

WYSONG & MILES

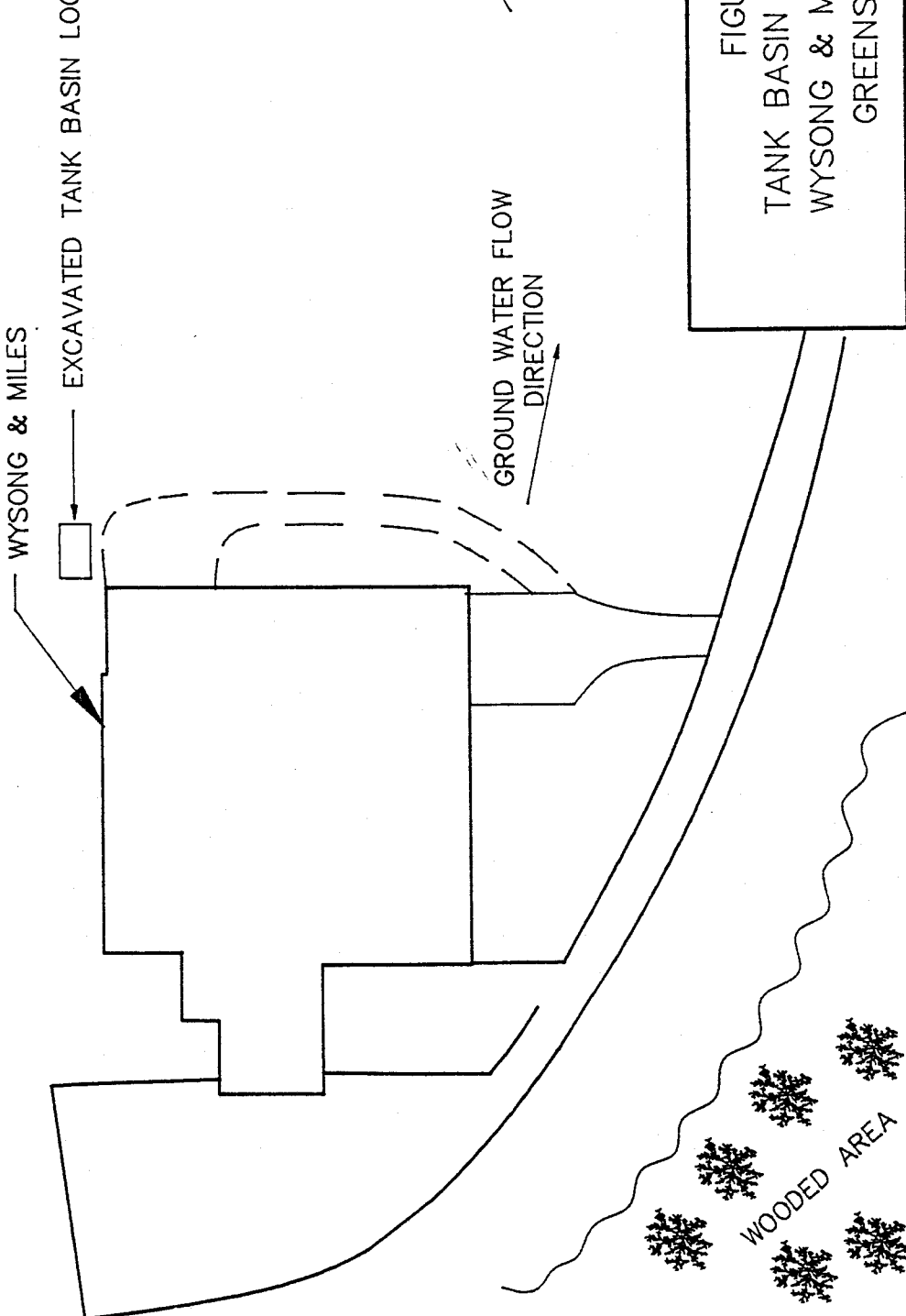
EXCAVATED TANK BASIN LOCATION

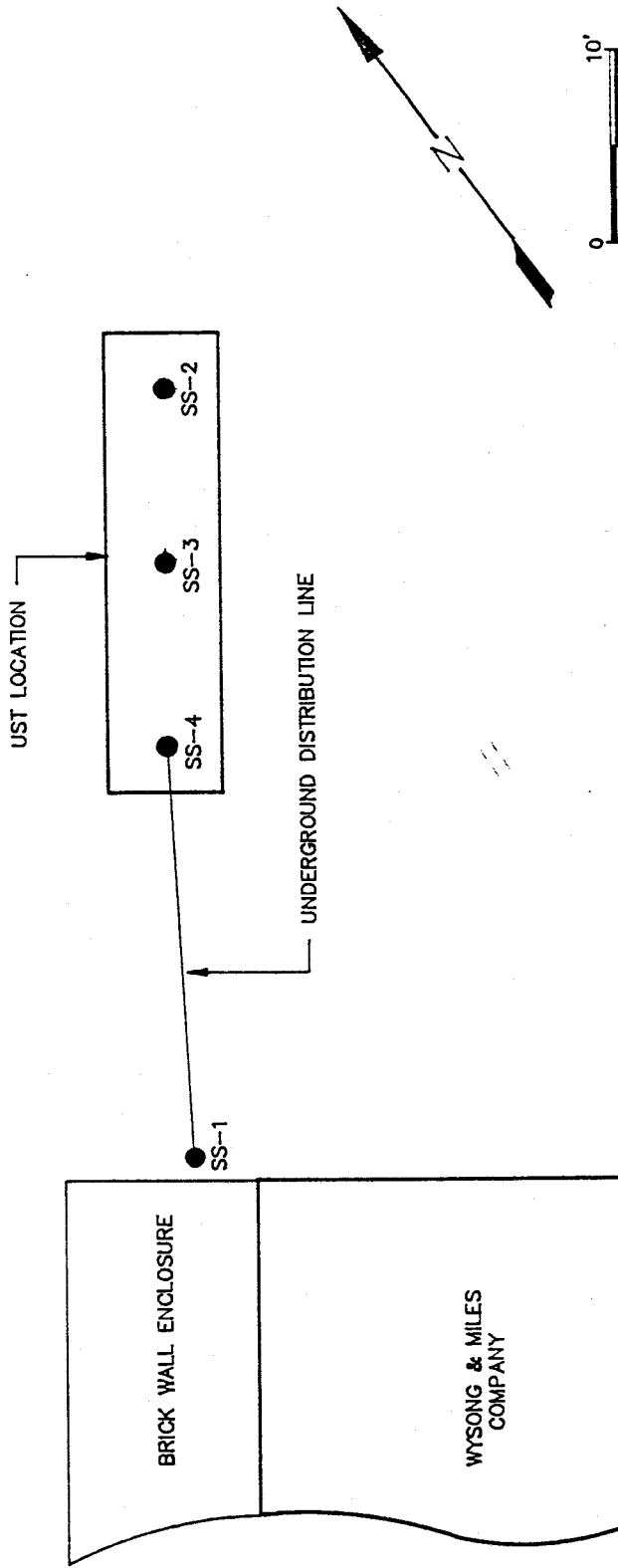
GROUND WATER FLOW  
DIRECTION

0 150'

FIGURE 2  
TANK BASIN LOCATION MAP  
WYSONG & MILES COMPANY  
GREENSBORO, NC

|            |           |
|------------|-----------|
| PROJECT NO | DRAWN BY  |
| 50-88-173  | C.W.H.    |
| DATE       | REVIEW BY |
| 7-24-91    | LSGW      |





**LEGEND:**

● SOIL SAMPLE LOCATION

**FIGURE 3**  
 UST/LINE LOCATION  
 SOIL SAMPLE LOCATIONS  
 WYSONG & MILES COMPANY  
 GREENSBORO, NC

|            |             |
|------------|-------------|
| PROJECT NO | DRAWN BY    |
| 50-88-173  | C.W.H.      |
| DATE       | REVIEW BY   |
| 7-24-91    | [Signature] |
| CAD NO.    |             |
| 173-UST    |             |





**Phase I Remedial Action Plan**  
**Wysong & Miles Site**  
**Greensboro, North Carolina**

**H&H Job No. WYM-002**

**December 15, 2009**  
**Revised April 15, 2010**



2923 South Tryon Street  
Suite 100  
Charlotte, NC 28203  
704-586-0007

3334 Hillsborough Street  
Raleigh, NC 27607  
919-847-4241

#C-1269 Engineering  
#C-245 Geology

## 1.0 INTRODUCTION

This Phase I Remedial Action Plan (RAP) has been prepared for the Wysong & Miles facility and downgradient property owned by Pennston Corporation in accordance with the Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup (NCDENR, October 2009). Certification statements for this RAP are in **Appendix A**. The properties are located along U.S. Highway 29 approximately 10 miles north of Greensboro in Guilford County, North Carolina (**Figure 1**). The Wysong & Miles property consists of approximately 60 acres of land bounded to the west by U.S. Highway 29, to the north and east by Pennston's property, and to the south by a residential subdivision and British Petroleum Service Station, formerly owned by Texaco and the Lee Oil Company (**Figure 2**).

Progressive site assessments, source area remediation activities, groundwater extraction and treatment system operation, and routine groundwater and surface water monitoring have been completed over the past 20 years. Background soil sampling and soil vapor sampling investigations were completed in September 2009. Details related to these activities are provided in various reports previously submitted to NCDENR and are not repeated in this document except where necessary to support the evaluation of remedial alternatives for the Wysong and Pennston properties.

Remedial action evaluation for this site is being phased so that groundwater is addressed first in this Phase I RAP, followed by evaluation of remedial action for source area soil (in a Phase II RAP). This approach has been developed for the following reasons:

- Soil in the source area, particularly beneath the floor slab of the manufacturing building, has not been completely delineated;

Groundwater impacts on the Pennston property need to be expeditiously addressed to allow settlement of their claim against Wysong in bankruptcy court so both parties may move forward with future plans.

This RAP specifically addresses groundwater impacts on the Wysong and Pennston properties related to historic chlorinated solvent releases that occurred at the Wysong facility and at an unidentified, off-site area near the Lacy Allred Farm subdivision. The upgradient, off-site chlorinated solvent contamination has migrated onto the Wysong property and joined with similar chlorinated solvents released circa 1987 from a former 1,1,1-trichloroethane (TCA) storage tank at the northeast corner of the Wysong facility. The joined plume currently extends from the southern portion of the Wysong facility to the northeast beneath the Wysong facility and thence onto the Pennston property as shown on **Figure 3**.

## 2.0 SITE BACKGROUND

The current approximate extent of the groundwater contamination associated with the joined chlorinated solvent plumes is shown on **Figure 3**. Contaminant migration and dispersion is controlled by the local hydrogeology, generally extending in the direction of groundwater flow north-northeast from the Lacy Allred Subdivision and Wysong release areas toward the eastern tributary to Reedy Fork Creek north of Reedy Fork Parkway. The following sections provide summary descriptions of the chlorinated solvent releases associated with the groundwater plume.

### 2.1 LACY ALLRED FARM/SERVICE STATION SOLVENT RELEASE

Groundwater samples collected in the late 1980s by Guilford County and NCDENR from several off-site, upgradient monitoring wells and residential wells within the Lacy Allred Farm Subdivision and near the former Texaco service station confirm that a large release of TCA (i.e., with groundwater concentrations of at least 20 mg/L in shallow wells and greater than 7.0 mg/L in deep bedrock wells) occurred in this area. The specific source area(s) has not been identified, however it is suspected that the TCA was released by disposal into the former service station's septic field and/or during historic residential auto body repair businesses reported to have been conducted at one or more of the Lacy Allred Farm residences.

Based upon review of over 20 years of historical data, it is evident the upgradient off-site chlorinated solvent release(s) has migrated onto the Wysong & Miles property and that associated chlorinated volatile organic compounds (CVOCs) are present along with CVOCs released at the Wysong & Miles facility. The resulting combined plumes have subsequently migrated onto Pennston's property.



## 2.2 WYSONG SOLVENT RELEASE AREAS

Degreasing operations during manufacture of precision machine tools at Wysong & Miles resulted in the release of the chlorinated solvent TCA. Two separate release areas have been identified, including a 1,500-gallon TCA aboveground storage tank previously located at the northeast corner of the Wysong & Miles facility and a former machine coolant disposal basin southwest of the facility (**Figure 4**). Based on extensive site investigation and remedial data, it is evident the majority of chlorinated solvent released at the Wysong facility was associated with a leaking TCA line below the 1,500-gallon TCA tank, not from the machine coolant disposal basin.

### 2.2.1 Machine Coolant Disposal Basin

The machine coolant disposal basin was located at the southwest side of the Wysong facility and consisted of a concrete dry well used for disposal of machine cutting oils (i.e., petroleum hydrocarbons) from 1965 to April 1985. Cutting oils entered the disposal basin through a network of six floor drains installed in the machine shop area. Solvents were not intentionally disposed through the floor drain network or machine coolant basin, although a limited amount of solvent appears to have been mixed with machine cutting oils. Groundwater is typically located at 25-35 feet below ground surface (bgs) near the machine coolant disposal basin. The machine coolant disposal basin area and cover were paved with concrete throughout its history, minimizing the potential for surface water infiltration.

After closure of the machine coolant disposal basin in April 1985, Wysong installed and operated a soil vapor extraction (SVE) system to recover petroleum hydrocarbons from the disposal basin area in 1988-1989. Wysong excavated the former machine coolant disposal basin in August 1992, following completion of SVE operations. This remedial action included removal of the concrete disposal basin and approximately 140 cubic yards of impacted soil. During the soil removal process, the SVE system components were also removed. Remedial excavation was completed to approximately 17 feet bgs

and confirmatory soil samples were collected to document that impacted source material had been removed. The excavation was then backfilled with clean material and a concrete cap was installed over the area. A Soil Treatment Unit Closure Report (Delta Environmental Consultants, Inc.) was submitted to NCDENR on December 12, 1994.

The majority of contaminants detected at the machine coolant disposal basin area consisted of petroleum hydrocarbons related to machine cutting oils. Based on confirmatory soil sampling data and downgradient groundwater sampling results, the machine coolant disposal basin did not contribute significantly to the dissolved-phase chlorinated solvent impacts associated with groundwater in the joined plume shown on **Figure 3**. Therefore no further investigation or remediation of the machine coolant disposal basin is necessary.

### **2.2.2 Former TCA Tank Area**

The 1,500 gallon TCA above-ground storage tank formerly located at the northeast corner of the Wysong facility (**Figure 4**) operated from 1965 until February 1989. On October 16, 1987 Wysong discovered and repaired a leak in the TCA supply line below the tank. Following repair of the TCA line, TCA continued to be used for degreasing operations throughout 1988 and into early 1989. The TCA tank and supply line were subsequently removed and TCA use was discontinued.

Based on Wysong's inventory records, it appears the TCA leak may have begun in May 1987 and continued until discovered and corrected in October 1987. During this period the inventory records and corresponding TCA usage indicate that approximately 2,500 gallons of TCA was unintentionally leaked through an underground line below the above ground storage tank.

Wysong was proactive in implementing recovery operations immediately following discovery of the TCA tank release in October 1987. Wysong immediately began design and construction of a SVE system, activated in October 1988. The SVE system included

a network of vertical vapor extraction points in the vadose-zone near the TCA tank. Based on vapor emission monitoring data and corresponding SVE flow rate records, the composite TCA recovery was approximately 2,035 gallons from October 1988 through May 1990 when asymptotic conditions were attained and the SVE system was deactivated.

In a further effort to contain the TCA release, Wysong installed a groundwater recovery well (RW-2) immediately downgradient from the TCA tank. Recovery well RW-2 was activated in July 1990. The total TCA recovered from RW-2 was approximately 133 gallons, primarily accomplished between July 1990 and 1992 when the aqueous-phase mass removal reached asymptotic conditions.

Wysong was able to recover approximately 2,170 gallons of TCA, more than 85 percent of the estimated 2,500 gallon release at the former TCA tank area. The fate of the unrecovered TCA includes several pathways, such as volatilization during the leak event; sorption to vadose zone soils near the TCA tank area; and migration through the vadose zone to groundwater. Based on analytical trend data at the recovery wells and at nearby monitoring wells (including MW-1; MW-4; and MW-9D), the remedial operations were very effective for containment and recovery of the TCA tank release.

In August 2006 and August 2007 direct-push investigations were conducted in the former TCA tank area to evaluate the extent of residual vadose zone impacts after the 1988-1990 SVE operations and approximately 17 years of natural attenuation. The investigations indicate that residual soil impacts remain in vadose zone soils near the former TCA tank. The extent of CVOCs in soil has not been delineated to the north and east of the source area or below the slab of the manufacturing building. The extent of 1,4-dioxane in soil has not been delineated laterally or vertically with respect to the source area. Additional investigation proposed to delineate soil impacts is described in Section 8.1.

In June 2009, H&H conducted a soil vapor investigation to address potential vapor intrusion risks (*Soil Vapor Sampling Investigation*, H&H, October 2009). The TCA tank

area was one area of concern because of the impacted soil. Three soil vapor samples were collected in the TCA tank area: one inside the building from below the floor slab; and one each from the capillary and vadose zones outdoors near the former TCA tank pad. Analytical results from all samples reported several CVOCs at concentrations greater than NCDENR Industrial screening levels. One sample collected from the exterior vadose zone reported 1,4-dioxane at concentrations greater than Industrial Screening Levels provided by IHSB. The former TCA tank area is the only location on the Wysong property where residual soil and soil vapor impacts are present at concentrations exceeding corresponding NCDENR remedial guidelines. **Figure 5** illustrates the soil boring and soil vapor sampling locations at the former TCA tank area.

### 2.3 HYDROGEOLOGIC SUMMARY

The impacted properties are underlain by typical Piedmont North Carolina geology that includes shallow saprolite underlain by partially weathered rock (PWR) which grades downward to competent bedrock that exhibits fractures in upper portions with the fractures decreasing with depth. Each of these geological zones contains groundwater that is interconnected. More detail regarding these interconnected hydrological zones is provided below:

- **Shallow Zone** - unconsolidated regolith, which includes the surface soil and underlying saprolitic unit generally encountered from surface grade to 20 – 30 feet bgs. In undisturbed areas there are several feet of red silty clay underlain by a tan to light brown micaceous silt which grades to saprolite.
- **Intermediate Zone** –PWR encountered from approximately 30 - 60 feet bgs. The PWR is characterized by residual, or remnant bedrock features such as mineral grain definition, foliation, and fractures. In Piedmont geological settings, this zone typically exhibits the highest effective porosity and therefore serves as the dominant groundwater flow zone.

- **Deep Zone**—fractured bedrock, consisting of diorite and phyllite, typically encountered below 60 feet bgs, although the depth to bedrock diminishes rapidly near the tributaries to Reedy Fork Creek at the northern extent of the plume. A high degree of fracturing was noted during previous site investigations to a depth of approximately 200 feet bgs.

Groundwater is typically encountered at 25-40 feet bgs, except in low lying areas near surface water bodies where it is typically encountered at 5-10 feet bgs. The hydraulic conductivity, determined from aquifer pump tests, is approximately 17.1 feet per year (*Remedial Action Work Plan*, Delta, 1990).

Generally, groundwater flow in the shallow and intermediate zones is to the northeast, although a shallow groundwater divide occurs along a ridge running from near monitoring well MW-22 north-northeast toward TW-15. The east and west sides of the ridge are drained by separate branches of Reedy Fork Creek. These tributaries join together at Reedy Fork Creek, approximately 3,500 feet northeast of the Wysong & Miles facility. The potentiometric surface is shown on **Figure 6**, based on well gauging measurements collected during October 2008.

Hydrogeologic cross-sections with flow nets were prepared using water table elevation data from June 19, 2006 when the former groundwater extraction system was operational. **Figure 7** illustrates the locations of the cross-sections. Cross-section A – A' (**Figure 8**) trends northeasterly along the length of the impacted zone and cross-section B – B' (**Figure 9**) is perpendicular to A – A', just south of the pond on the Wysong property.

As shown on cross-section A – A', groundwater flow near the Wysong facility was influenced by the recovery wells. Downward vertical gradients due to pumping in the deep zone have likely pulled contaminants downward toward these wells; however, the lateral cone of influence of these recovery wells was not large enough to capture the impacted groundwater, particularly along the lateral extents of the plume. Therefore, impacted groundwater has migrated along with groundwater flow in a northeasterly

direction. Downgradient of the recovery wells the groundwater flows northeasterly with little vertical gradient except near the eastern branch of Reedy Fork Creek where it moves upward and discharges into the stream.

Cross-section B – B' trends east-west, just south of the pond on the Wysong property. The flow net shows that groundwater discharges to both the pond and the stream north of the pond. None of the surface water samples collected from the pond or the stream north of the pond contained contaminants.

Deep groundwater is present in bedrock fractures, and for purposes of this discussion ranges from approximately 75 feet bgs to 300 feet bgs. Packer testing performed on well WSW D in the early 1990's and at bedrock wells BR-1 and BR-2 in 2007 indicated that water producing fractures exist to the bottom of these wells. At this site, the predominant fracture pattern trends northeasterly, therefore it is assumed that deep groundwater flow is to the northeast, although an insufficient number of deep monitoring wells are available to develop a potentiometric surface map. The fate and transport of dissolved-phase CVOCs in deep groundwater is influenced most significantly by bedrock fracture patterns.

**TABLE 1**  
**Constituents of Concern and Remedial Goals**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| <b>Soil</b>           | <b>NCDENR Protection of Groundwater Remediation Goal (µg/kg)</b> | <b>NCDENR Health-Based Remediation Goal (µg/kg)</b>                |
|-----------------------|--|--|
| Tetrachloroethene     | 5  | 550  |
| Trichloroethene       | 18   | 2,800  |
| 1,1,1-Trichloroethane | 1,200  | 640,000  |
| 1,1-Dichloroethane    | 30   | 3,300  |
| 1,2-Dichloroethane    | 2  | 430  |
| 1,1-Dichloroethene    | 46   | 49,000   |
| Vinyl Chloride        | 0.19   | 60   |
| Methylene Chloride    | 23   | 11,000   |
| 1,4-Dioxane           | 12   | 44,000   |
| <b>Soil Vapor</b>     | <b>Residential Screening Level (µg/m<sup>3</sup>)</b>            | <b>Industrial Screening Level (µg/m<sup>3</sup>)</b>               |
| Tetrachloroethene     | 41   | 210  |
| Trichloroethene       | 120  | 610  |
| 1,1,1-Trichloroethane | 10,400   | 44,000   |
| 1,1-Dichloroethene    | 420  | 1,760  |
| 1,4-Dioxane           | 32 *   | 160 *  |
| <b>Groundwater</b>    | <b>NCAC 2L Standard (µg/L)</b>                                   | <b>IHSB Residential Vapor Intrusion Screening Levels (µg/L)</b>    |
| 1,1,1-Trichloroethane | 200  | 1500   |
| 1,1-Dichloroethane    | 6.0  | 65   |
| 1,2-Dichloroethane    | 0.4  | 20   |
| 1,1-Dichloroethene    | 7.0  | 38   |
| Trichloroethene       | 3.0  | 30   |
| Tetrachloroethene     | 0.7  | 5.7  |
| Vinyl Chloride        | 0.03   | 1.5  |
| 1,4-Dioxane           | 3.0  | NE   |
| <b>Surface Water</b>  | <b>NCAC 2B Standard (µg/L)</b>                                   | <b>Risk-Based Screening Level for Adolescent Contact ** (µg/L)</b> |
| 1,4-Dioxane           | 110  | 20000  |
| Vinyl Chloride        | 2.4  | 38   |

NOTES:

\* indicates value calculated by NC IHSB

\*\* calculated based on 45-day per year adolescent exposure frequency to Reedy Fork Creek (HHRA, July 2009)

NE = not established

**TABLE 2**  
**Summary of TCA Tank Soil Samples, August 2006**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Sample ID<br>Date Collected           | SB-1 (3-4')<br>8/22/2006 | SB-1 (13-14')<br>8/22/2006 | SB-2 (17-18')<br>8/22/2006 | SB-3 (9-10')<br>8/22/2006 | SB-4 (17-18')<br>8/22/2006 | SB-5 (2-3')<br>8/22/2006 | SB-6 (1-2')<br>8/22/2006 | NCDENR Protection<br>of Groundwater<br>Remediation Goal | NCDENR Health-<br>Based Remediation<br>Goal |
|---------------------------------------|--------------------------|----------------------------|----------------------------|---------------------------|----------------------------|--------------------------|--------------------------|---|---|
| <b><u>VOCs (EPA Method 8260B)</u></b> |                          |                            |                            |                           |                            |                          |                          |   |   |
| Acetone                               | <21                      | 26                         | <20                        | <22                       | <18                        | 79                       | <22                      | 24,000  | 12,000,000                                  |
| Chloroform                            | 4.9J                     | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 340   | 300   |
| Ethylbenzene                          | 4.0J                     | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 8,200   | 5,700                                       |
| 1,2-Dichlorobenzene                   | 13                       | <12                        | <9.9                       | <11                       | <9.2                       | <9.4                     | <11                      | 240   | 380,000                                     |
| 1,1-Dichloroethane                    | 6.2                      | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 30  | 3,300                                       |
| 1,2-Dichloroethane                    | <b>22</b>                | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 2.0   | 430   |
| 1,1-Dichloroethene                    | <b>900</b>               | <0.85                      | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 46  | 49,000                                      |
| 1,4- Dioxane                          | <b>570</b>               | <b>1,800,000</b>           | <b>150,000</b>             | <b>32,000</b>             | <b>11,000</b>              | <6.2                     | <6.9                     | 12  | 44,000                                      |
| Tetrachloroethene                     | <b>20</b>                | <12                        | <9.9                       | <11                       | <9.2                       | <9.4                     | <11                      | 5.0   | 550   |
| 1,1,1-Trichloroethane                 | <b>28,000</b>            | 18                         | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 1,200   | 640,000                                     |
| Trichloroethene                       | <b>57</b>                | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 18  | 2,800                                       |
| Toluene                               | 26                       | <5.8                       | <5.0                       | <5.5                      | <4.6                       | <4.7                     | <5.5                     | 5,500   | 820,000                                     |
| Xylenes                               | 21.1                     | <12                        | <9.9                       | <11                       | <9.2                       | <9.4                     | <11                      | 6,000   | 130,000                                     |

NOTES:

All values reported as micrograms per kilogram.

**Bold** - Value exceeds NCDENR Protection of Groundwater Remediation Goals, IHSB January 2010

Boxed - Value exceeds NCDENR Health-Based Remediation Goal, IHSB January 2010

J - Estimated value



**TABLE 3**  
**Summary of TCA Tank Soil Samples, August 2007**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Sample ID                             | SB-7A<br>(3-4') | SB-7B<br>(11-12') | SB-8A<br>(12-13') | SB-8B<br>(16-17') | SB-9A<br>(3-4') | SB-9B<br>(16-17') | SB-10A<br>(4-5') | SB-10B<br>(13-14') | NCDENR<br>Protection of Groundwater<br>Remediation Goal | NCDENR<br>Health-Based<br>Remediation Goal |
|---------------------------------------|-----------------|-------------------|-------------------|-------------------|-----------------|-------------------|------------------|--------------------|---|--|
| Date Collected                        | 8/2/2007        | 8/2/2007          | 8/2/2007          | 8/2/2007          | 8/2/2007        | 8/2/2007          | 8/2/2007         | 8/2/2007           |   |  |
| <b><i>VOCs (EPA Method 8260B)</i></b> |                 |                   |                   |                   |                 |                   |                  |                    |   |  |
| Chloroethane                          | <12             | <11               | <12               | <12               | <11             | 15                | <12              | <11                | 16,000  | 2,100,000                                  |
| Acetone                               | 59              | 76                | 220               | <23               | <22             | <22               | <23              | <22                | 24,000  | 12,000,000                                 |
| Chloroform                            | <5.8            | <5.7              | <5.8              | <5.8              | 72              | 21                | 6.1              | <5.5               | 340   | 300  |
| Chloromethane                         | <12             | <11               | <12               | <12               | <11             | 12                | <12              | <11                | 15  | 24,000                                     |
| 4-Methyl-2-pentanone                  | <12             | <11               | <12               | <12               | 76              | 14                | <12              | <11                | NS  | 1,100,000                                  |
| Ethylbenzene                          | <5.8            | <5.7              | <5.8              | <5.8              | 29              | 7.9               | 12               | <5.5               | 8,200   | 5,700                                      |
| 1,2-Dichlorobenzene                   | <12             | <11               | 2.6J              | <12               | 39              | 18                | 36               | <11                | 240   | 380,000                                    |
| 1,1-Dichloroethane                    | 3.1J            | <5.7              | <5.8              | <5.8              | 140             | <b>930</b>        | 11               | <5.5               | 30  | 3,300                                      |
| 1,2-Dichloroethane                    | <5.8            | <b>5.4J</b>       | <b>3.9J</b>       | <5.8              | <b>240</b>      | <b>78</b>         | <b>17</b>        | <5.5               | 2.0   | 430  |
| 1,1-Dichloroethene                    | <b>1,400</b>    | 41                | 36                | <5.8              | <b>4,000</b>    | <b>1,700</b>      | <b>1,400</b>     | <5.5               | 46  | 49,000                                     |
| cis-1,2-Dichloroethene                | <5.8            | <5.7              | <5.8              | <5.8              | 5.0J            | <5.4              | <5.8             | <5.5               | 360   | 160,000                                    |
| Isopropyl ether (IPE)                 | <5.8            | <5.7              | <5.8              | <5.8              | 30              | 8.6               | <5.8             | <5.5               | 320   | 270,000                                    |
| Methylene Chloride                    | <12             | <11               | <12               | <12               | <b>73</b>       | 18                | 9.0J             | <11                | 23  | 11,000                                     |
| Tetrachloroethene                     | <b>47</b>       | <11               | <b>7.3J</b>       | <12               | <b>290E</b>     | <b>63</b>         | <b>130</b>       | <11                | 5.0   | 550  |
| 1,1,1-Trichloroethane                 | <b>22,000</b>   | 230               | 310               | 89                | <b>88,000</b>   | <b>160,000</b>    | <b>45,000</b>    | 12                 | 1,200   | 640,000                                    |
| 1,1,2-Trichloroethane                 | <5.8            | <5.7              | <5.8              | <5.8              | 19              | 7.0               | <5.8             | <5.5               | NS  | 1,100                                      |
| Trichloroethene                       | <b>65</b>       | 4.5J              | 8.6               | <5.8              | <b>260</b>      | <b>170</b>        | <b>230</b>       | <5.5               | 18  | 2,800                                      |
| Trichlorofluoromethane                | <5.8            | <5.7              | <5.8              | <5.8              | 14              | <5.4              | <5.8             | <5.5               | 24,000  | 160,000                                    |
| Vinyl chloride                        | <12             | <11               | <12               | <12               | <11             | <b>4.9J</b>       | <12              | <11                | 0.190   | 60   |
| Toluene                               | 3.3J            | <5.7              | 2.9J              | <5.8              | 230             | 64                | 85               | <5.5               | 5,500   | 820,000                                    |
| Xylenes                               | <12             | <11               | <12               | <12               | 128             | 37.2              | 57               | <11                | 6,000   | 130,000                                    |
| <b><i>8260 SIMS Method</i></b>        |                 |                   |                   |                   |                 |                   |                  |                    |   |  |
| 1,4- Dioxane                          | <b>88</b>       | <b>50,000</b>     | <b>1,500,000</b>  | <b>770,000</b>    | <b>8,400</b>    | <b>34,000</b>     | <b>1,000</b>     | <b>590,000</b>     | 12  | 44,000                                     |
| <b>Total CVOCs</b>                    | <b>23,515</b>   | <b>281</b>        | <b>368</b>        | <b>89</b>         | <b>92,993</b>   | <b>162,986</b>    | <b>46,824</b>    | <b>12</b>          |   |  |

NOTES:

Samples collected by others prior to Hart & Hickman involvement

All values reported as micrograms per kilogram.

**Bold** - Value exceeds NCDENR Protection of Groundwater Remediation Goals, IHSB January 2010

**Boxed** - Value exceeds NCDENR Health-Based Remediation Goal, IHSB January 2010

NS - No Standard

J - Estimated value between reporting limit and detection limit

E - Estimated value above calibration range

**TABLE 5**  
**Summary of Three Most Recent Groundwater Sampling Event**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well   | Date       | Chloroethane | 1,1-DCA    | 1,2-DCA     | 1,1-DCE     | cis-1,2-DCE | 1,4-Dioxane  | PCE         | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|--|------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|--------------|-----------|------------|----------------|
| MW-1   | 6/22/2006  | ND           | <b>9.6</b> | ND          | <b>720</b>  | ND          | NS           | <b>1</b>    | 140          | 2         | ND         | ND             |
|  | 12/19/2007 | ND           | <b>11</b>  | ND          | <b>70</b>   | ND          | <b>170</b>   | <b>1.2</b>  | 130          | 2.1       | ND         | ND             |
|  | 6/26/2008  | ND           | <b>13</b>  | ND          | <b>55</b>   | ND          | <b>140</b>   | <b>1.2</b>  | 92           | 1.9       | ND         | ND             |
| MW-2   | 8/25/2005  | ND           | ND         | ND          | <b>12.5</b> | ND          | NS           | ND          | 3.78         | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | ND         | ND          | <b>13.6</b> | ND          | NS           | ND          | 4.08         | ND        | ND         | ND             |
|  | 6/19/2006  | ND           | ND         | ND          | <b>8.7</b>  | ND          | NS           | ND          | 2.8          | ND        | ND         | ND             |
| MW-3   | 8/17/2004  | ND           | 1.02       | <b>2.1</b>  | 3.73        | ND          | NS           | ND          | ND           | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | 1.47       | <b>2.32</b> | ND          | ND          | NS           | ND          | ND           | ND        | ND         | ND             |
|  | 6/20/2006  | ND           | 2.8        | <b>2</b>    | 6           | ND          | NS           | ND          | 1.2          | ND        | ND         | ND             |
| MW-4   | 8/25/2005  | ND           | ND         | ND          | <b>38.7</b> | ND          | NS           | ND          | ND           | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | 2.4        | ND          | <b>20.2</b> | ND          | NS           | ND          | 2.4          | ND        | ND         | ND             |
|  | 6/20/2006  | ND           | 1.8        | ND          | <b>44</b>   | ND          | NS           | ND          | 1.9          | ND        | ND         | ND             |
| MW-5D  | 8/25/2005  | ND           | ND         | ND          | <b>87.5</b> | ND          | NS           | ND          | 27.3         | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | ND         | ND          | <b>96.4</b> | ND          | NS           | ND          | 25.5         | ND        | ND         | ND             |
|  | 6/23/2006  | ND           | 2.2        | ND          | <b>92</b>   | ND          | NS           | ND          | 26           | ND        | ND         | ND             |
| MW-6   | 8/17/2004  | ND           | ND         | ND          | ND          | ND          | ND           | ND          | ND           | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | ND         | ND          | ND          | ND          | ND           | ND          | ND           | ND        | ND         | ND             |
|  | 6/22/2006  | ND           | ND         | ND          | ND          | ND          | NS           | ND          | ND           | ND        | ND         | ND             |
| MW-8   | 8/25/2005  | ND           | ND         | ND          | <b>121</b>  | ND          | NS           | ND          | 37.8         | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | ND         | ND          | <b>122</b>  | ND          | NS           | ND          | 36.4         | ND        | ND         | ND             |
|  | 6/22/2006  | ND           | <b>6.7</b> | ND          | <b>140</b>  | ND          | NS           | ND          | 40           | ND        | ND         | ND             |
| MW-9D  | 3/13/2006  | ND           | ND         | ND          | ND          | ND          | NS           | ND          | <b>1,560</b> | ND        | ND         | ND             |
|  | 12/19/2007 | ND           | <b>85</b>  | ND          | <b>390</b>  | ND          | <b>240</b>   | <b>9.1J</b> | <b>2,000</b> | 7.4J      | ND         | ND             |
|  | 6/26/2008  | ND           | <b>60</b>  | ND          | <b>290</b>  | ND          | <b>1,662</b> | <b>6.3J</b> | <b>1,300</b> | 5.4J      | ND         | ND             |
| <b>NCAC 2L Standard</b>                        |            | <b>3000</b>  | <b>6.0</b> | <b>0.4</b>  | <b>7.0</b>  | <b>70</b>   | <b>3.0</b>   | <b>0.7</b>  | <b>200</b>   | <b>NS</b> | <b>3.0</b> | <b>0.03</b>    |
| <b>Risk Based Screening Level <sup>1</sup></b> |            | <b>NS</b>    | <b>65</b>  | <b>20</b>   | <b>38</b>   | <b>NS</b>   | <b>NS</b>    | <b>5.7</b>  | <b>1500</b>  | <b>44</b> | <b>30</b>  | <b>1.5</b>     |

1. IHSB Residential Vapor Intrusion Screening Level for Groundwater, January 2010

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2L Standard

NS = no standard

**TABLE 5**  
**Summary of Three Most Recent Groundwater Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well   | Date       | Chloroethane | 1,1-DCA    | 1,2-DCA      | 1,1-DCE      | cis-1,2-DCE | 1,4-Dioxane  | PCE        | 1,1,1-TCA   | 1,1,2-TCA | TCE         | Vinyl Chloride |
|--|------------|--------------|------------|--------------|--------------|-------------|--------------|------------|-------------|-----------|-------------|----------------|
| MW-10  | 6/22/2006  | ND           | <b>14</b>  | <b>7.9</b>   | <b>870</b>   | ND          | NS           | ND         | 60          | 2.2       | 1.5         | ND             |
|  | 12/19/2007 | ND           | <b>15</b>  | <b>9.0</b>   | <b>870</b>   | ND          | <b>952</b>   | <b>1.7</b> | 52          | 2.5       | 1.8J        | ND             |
|  | 6/26/2008  | ND           | <b>10</b>  | <b>7.1</b>   | <b>350</b>   | ND          | <b>405</b>   | <b>1.1</b> | 31          | 2.2       | 1.1J        | ND             |
| MW-11  | 8/16/2004  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | <b>5.22</b> | ND             |
|  | 3/13/2006  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | <b>3.82</b> | ND             |
|  | 6/21/2006  | ND           | ND         | ND           | ND           | 1.1         | NS           | ND         | ND          | ND        | <b>4.1</b>  | ND             |
| MW-12  | 5/17/1995  | ND           | ND         | ND           | 2.4          | ND          | NS           | ND         | 2.1         | ND        | ND          | ND             |
| MW-13D   | 6/22/2006  | ND           | <b>13</b>  | ND           | <b>72</b>    | ND          | NS           | ND         | 22          | ND        | 1.8         | ND             |
|  | 12/19/2007 | ND           | <b>13</b>  | <b>0.71J</b> | <b>130</b>   | ND          | <b>62</b>    | 0.62J      | 45          | ND        | 0.71J       | <b>1.2J</b>    |
|  | 6/25/2008  | ND           | <b>8.4</b> | ND           | <b>140</b>   | ND          | <b>174</b>   | ND         | 26          | ND        | ND          | ND             |
| MW-14  | 3/27/2008  | ND           | <b>97</b>  | <b>8.6J</b>  | <b>1,100</b> | ND          | <b>520</b>   | ND         | <b>550</b>  | 6.3J      | ND          | ND             |
|  | 6/27/2008  | ND           | <b>110</b> | <b>9.2J</b>  | <b>1,700</b> | ND          | <b>2,576</b> | ND         | <b>750</b>  | 6.4J      | ND          | ND             |
|  | 10/1/2008  | ND           | <b>100</b> | <b>8.6J</b>  | <b>1,400</b> | ND          | <b>490</b>   | ND         | <b>540</b>  | 6.2J      | ND          | ND             |
| MW-15  | 8/25/2005  | ND           | ND         | ND           | <b>67</b>    | ND          | NS           | ND         | 108         | ND        | ND          | ND             |
|  | 3/13/2006  | ND           | ND         | ND           | <b>90.2</b>  | ND          | NS           | ND         | 156         | ND        | ND          | ND             |
|  | 6/22/2006  | ND           | <b>12</b>  | ND           | <b>74</b>    | ND          | NS           | ND         | 120         | 1.1       | ND          | ND             |
| MW-16D   | 8/16/2004  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
|  | 3/14/2006  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
|  | 6/21/2006  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
| MW-17  | 8/17/2004  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
|  | 3/13/2006  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
|  | 6/19/2006  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND          | ND        | ND          | ND             |
| <b>NCAC 2L Standard</b>                        |            | <b>3000</b>  | <b>6.0</b> | <b>0.4</b>   | <b>7.0</b>   | <b>70</b>   | <b>3.0</b>   | <b>0.7</b> | <b>200</b>  | <b>NS</b> | <b>3.0</b>  | <b>0.03</b>    |
| <b>Risk Based Screening Level <sup>1</sup></b> |            | <b>NS</b>    | <b>65</b>  | <b>20</b>    | <b>38</b>    | <b>NS</b>   | <b>NS</b>    | <b>5.7</b> | <b>1500</b> | <b>44</b> | <b>30</b>   | <b>1.5</b>     |

1. IHSB Residential Vapor Intrusion Screening Level for Groundwater, January 2010

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2L Standard

NS = no standard

**TABLE 5**  
**Summary of Three Most Recent Groundwater Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well   | Date       | Chloroethane | 1,1-DCA    | 1,2-DCA      | 1,1-DCE      | cis-1,2-DCE | 1,4-Dioxane  | PCE        | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|--|------------|--------------|------------|--------------|--------------|-------------|--------------|------------|--------------|-----------|------------|----------------|
| <b>MW-18</b>                                   | 8/17/2004  | ND           | ND         | ND           | <b>93.6</b>  | ND          | NS           | ND         | 12.9         | ND        | ND         | ND             |
|  | 3/13/2006  | ND           | ND         | NS           | <b>39.9</b>  | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|  | 6/20/2006  | ND           | ND         | NS           | <b>81</b>    | ND          | NS           | ND         | <b>9.5</b>   | ND        | ND         | ND             |
| <b>MW-19</b>                                   | 2/28/2005  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|  | 8/25/2005  | ND           | ND         | ND           | ND           | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|  | 6/20/2006  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| <b>MW-20</b>                                   | 8/16/2004  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|  | 6/25/2008  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| <b>MW-21D</b>                                  | 3/27/2008  | ND           | <b>8.6</b> | ND           | <b>23</b>    | 1.2         | <b>61</b>    | ND         | <b>13</b>    | ND        | <b>5.4</b> | ND             |
|  | 6/25/2008  | ND           | <b>11</b>  | ND           | <b>43</b>    | 0.98J       | <b>70</b>    | ND         | <b>19</b>    | ND        | <b>5.5</b> | ND             |
|  | 10/1/2008  | ND           | <b>10</b>  | ND           | <b>32</b>    | 1.1         | <b>62</b>    | ND         | <b>13</b>    | ND        | <b>5.3</b> | ND             |
| <b>MW-22</b>                                   | 3/27/2008  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|  | 6/26/2008  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | ND         | ND           | ND           | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| <b>MW-23D</b>                                  | 3/27/2008  | ND           | <b>84</b>  | ND           | <b>950</b>   | ND          | <b>2,634</b> | ND         | <b>1,600</b> | ND        | ND         | ND             |
|  | 6/26/2008  | ND           | <b>98</b>  | ND           | <b>1,400</b> | ND          | <b>660</b>   | ND         | <b>2,000</b> | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | <b>78</b>  | ND           | <b>920</b>   | ND          | <b>560</b>   | ND         | <b>1,400</b> | ND        | ND         | ND             |
| <b>WSW-D</b>                                   | 3/27/2008  | ND           | <b>14</b>  | <b>0.88J</b> | <b>140</b>   | ND          | <b>208</b>   | 0.69J      | 51           | 0.51J     | 0.52J      | ND             |
|  | 6/27/2008  | ND           | <b>12</b>  | <b>0.75J</b> | <b>120</b>   | ND          | <b>94</b>    | 0.69J      | 48           | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | <b>9.7</b> | <b>0.55J</b> | <b>110</b>   | ND          | <b>153</b>   | 0.63J      | 32           | ND        | ND         | ND             |
| <b>PWR-1</b>                                   | 8/11/2006  | ND           | 1.6        | <b>0.625</b> | <b>500</b>   | ND          | <b>39</b>    | ND         | <b>250</b>   | 2.4       | 1.7J       | ND             |
|  | 12/18/2007 | ND           | ND         | ND           | <b>290</b>   | ND          | ND           | ND         | 140          | ND        | ND         | ND             |
|  | 6/25/2008  | ND           | 0.67J      | ND           | <b>200</b>   | ND          | ND           | ND         | 110          | ND        | 0.69J      | ND             |
| <b>NCAC 2L Standard</b>                        |            | <b>3000</b>  | <b>6.0</b> | <b>0.4</b>   | <b>7.0</b>   | <b>70</b>   | <b>3.0</b>   | <b>0.7</b> | <b>200</b>   | <b>NS</b> | <b>3.0</b> | <b>0.03</b>    |
| <b>Risk Based Screening Level <sup>1</sup></b> |            | <b>NS</b>    | <b>65</b>  | <b>20</b>    | <b>38</b>    | <b>NS</b>   | <b>NS</b>    | <b>5.7</b> | <b>1500</b>  | <b>44</b> | <b>30</b>  | <b>1.5</b>     |

1. IHSB Residential Vapor Intrusion Screening Level for Groundwater, January 2010

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2L Standard

NS = no standard

**TABLE 5**  
**Summary of Three Most Recent Groundwater Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well   | Date       | Chloroethane | 1,1-DCA    | 1,2-DCA      | 1,1-DCE      | cis-1,2-DCE | 1,4-Dioxane | PCE        | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|--|------------|--------------|------------|--------------|--------------|-------------|-------------|------------|--------------|-----------|------------|----------------|
| <b>PWR-2</b>                                   | 8/11/2006  | ND           | <b>19</b>  | <b>2.0</b>   | <b>200</b>   | ND          | <b>76</b>   | ND         | 47           | 1.8       | ND         | ND             |
|  | 12/17/2007 | ND           | <b>27</b>  | ND           | <b>340</b>   | ND          | <b>57</b>   | ND         | 67           | ND        | ND         | ND             |
|  | 6/26/2008  | ND           | <b>29</b>  | <b>3.0</b>   | <b>310</b>   | ND          | <b>120</b>  | ND         | 69           | 2.5       | 0.66J      | ND             |
| <b>PWR-3</b>                                   | 5/23/2007  | ND           | ND         | ND           | <b>11</b>    | ND          | ND          | ND         | 1.4          | ND        | ND         | ND             |
|  | 12/17/2007 | ND           | 0.74J      | ND           | <b>16</b>    | ND          | ND          | ND         | 2.0          | ND        | ND         | ND             |
|  | 6/25/2008  | ND           | 0.67J      | ND           | <b>11</b>    | ND          | ND          | ND         | 1.5          | ND        | ND         | ND             |
| <b>PWR-4</b>                                   | 5/23/2007  | ND           | <b>45</b>  | <b>5.0</b>   | <b>590</b>   | ND          | <b>200</b>  | ND         | 95           | 4         | 1.1        | ND             |
|  | 12/18/2007 | ND           | <b>64</b>  | <b>7.4J</b>  | <b>600</b>   | ND          | <b>210</b>  | ND         | 140          | 6.1J      | ND         | ND             |
|  | 6/26/2008  | ND           | <b>54</b>  | <b>6.1J</b>  | <b>700</b>   | ND          | <b>270</b>  | ND         | 100          | ND        | ND         | ND             |
| <b>PWR-5</b>                                   | 5/23/2007  | ND           | <b>26</b>  | ND           | <b>260</b>   | ND          | <b>120</b>  | <b>1.4</b> | <b>460</b>   | 3.7       | ND         | ND             |
|  | 12/18/2007 | ND           | <b>24</b>  | ND           | <b>190</b>   | ND          | <b>190</b>  | ND         | <b>490</b>   | ND        | ND         | ND             |
|  | 6/26/2008  | ND           | <b>22</b>  | ND           | <b>150</b>   | ND          | <b>100</b>  | ND         | <b>440</b>   | ND        | ND         | ND             |
| <b>PWR-6</b>                                   | 8/30/2007  | ND           | <b>170</b> | ND           | <b>1,100</b> | ND          | <b>780</b>  | ND         | <b>1,800</b> | ND        | ND         | ND             |
|  | 12/19/2007 | ND           | <b>170</b> | ND           | <b>1,100</b> | ND          | <b>510</b>  | ND         | <b>2,200</b> | ND        | ND         | ND             |
|  | 6/27/2008  | ND           | <b>140</b> | ND           | <b>960</b>   | ND          | <b>480</b>  | ND         | <b>1,800</b> | ND        | ND         | ND             |
| <b>TW-1</b>                                    | 6/20/2006  | ND           | <b>7.2</b> | ND           | <b>77</b>    | ND          | <b>29</b>   | ND         | 16           | ND        | ND         | ND             |
|  | 12/18/2007 | ND           | <b>6.6</b> | <b>0.75J</b> | <b>77</b>    | ND          | <b>29</b>   | ND         | 14           | 0.61J     | ND         | ND             |
|  | 6/25/2008  | ND           | 5.0        | <b>0.59J</b> | <b>52</b>    | ND          | <b>41</b>   | ND         | 9.3          | ND        | ND         | ND             |
| <b>TW-2</b>                                    | 8/26/2005  | ND           | ND         | ND           | <b>45.6</b>  | ND          | NS          | ND         | 20.8         | ND        | ND         | ND             |
|  | 3/14/2006  | ND           | ND         | ND           | <b>12</b>    | ND          | NS          | ND         | 53.8         | ND        | ND         | ND             |
|  | 6/21/2006  | ND           | ND         | ND           | <b>40</b>    | ND          | ND          | ND         | 16           | ND        | ND         | ND             |
| <b>TW-3</b>                                    | 8/26/2005  | ND           | ND         | ND           | 1.7          | ND          | NS          | ND         | ND           | ND        | ND         | ND             |
|  | 3/14/2006  | ND           | ND         | ND           | 1.3          | ND          | NS          | ND         | ND           | ND        | ND         | ND             |
|  | 6/20/2006  | ND           | ND         | ND           | 2.2          | ND          | ND          | ND         | ND           | ND        | ND         | ND             |
| <b>NCAC 2L Standard</b>                        |            | <b>3000</b>  | <b>6.0</b> | <b>0.4</b>   | <b>7.0</b>   | <b>70</b>   | <b>3.0</b>  | <b>0.7</b> | <b>200</b>   | <b>NS</b> | <b>3.0</b> | <b>0.03</b>    |
| <b>Risk Based Screening Level <sup>1</sup></b> |            | <b>NS</b>    | <b>65</b>  | <b>20</b>    | <b>38</b>    | <b>NS</b>   | <b>NS</b>   | <b>5.7</b> | <b>1500</b>  | <b>44</b> | <b>30</b>  | <b>1.5</b>     |

1. IHSB Residential Vapor Intrusion Screening Level for Groundwater, January 2010

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2L Standard

NS = no standard

**TABLE 5**  
**Summary of Three Most Recent Groundwater Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well   | Date       | Chloroethane | 1,1-DCA    | 1,2-DCA      | 1,1-DCE      | cis-1,2-DCE | 1,4-Dioxane   | PCE        | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|--|------------|--------------|------------|--------------|--------------|-------------|---------------|------------|--------------|-----------|------------|----------------|
| <b>TW-14</b>                                   | 2/21/2000  | ND           | ND         | ND           | ND           | ND          | NS            | ND         | ND           | ND        | ND         | ND             |
|  | 8/15/2000  | ND           | ND         | ND           | ND           | ND          | NS            | ND         | ND           | ND        | ND         | ND             |
|  | 8/23/2001  | ND           | ND         | ND           | ND           | ND          | NS            | ND         | ND           | ND        | ND         | ND             |
| <b>TW-15</b>                                   | 6/21/2006  | ND           | 1.8        | ND           | <b>120</b>   | ND          | <b>46</b>     | ND         | 55           | 2.3       | ND         | ND             |
|  | 12/18/2007 | ND           | 2.2        | <b>0.85J</b> | <b>140</b>   | ND          | <b>60</b>     | ND         | 48           | 2.7       | 0.64J      | ND             |
|  | 6/26/2008  | ND           | 1.9        | ND           | <b>95</b>    | ND          | <b>59</b>     | ND         | 34           | 2.2       | ND         | ND             |
| <b>TW-16</b>                                   | 6/21/2006  | ND           | <b>82</b>  | 0.018        | <b>1,500</b> | ND          | <b>1,000E</b> | <b>2.1</b> | <b>640</b>   | 15        | <b>4.6</b> | <b>6.1</b>     |
|  | 12/18/2007 | ND           | <b>180</b> | <b>17</b>    | <b>2,300</b> | ND          | <b>980</b>    | ND         | <b>910</b>   | 15        | ND         | ND             |
|  | 6/26/2008  | ND           | <b>170</b> | ND           | <b>2,100</b> | ND          | <b>1,000</b>  | ND         | <b>810</b>   | ND        | ND         | ND             |
| <b>RW-1</b>                                    | 6/22/2006  | ND           | <b>70</b>  | <b>1.9</b>   | <b>330</b>   | ND          | NS            | <b>5.2</b> | <b>1,400</b> | 10        | 2.0        | ND             |
|  | 6/27/2008  | ND           | 5.3        | ND           | <b>65</b>    | ND          | <b>27</b>     | ND         | 20           | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | 5.4        | ND           | <b>46</b>    | ND          | <b>82</b>     | 0.54J      | 30           | ND        | ND         | ND             |
| <b>RW-2</b>                                    | 6/22/2006  | ND           | <b>8.3</b> | ND           | <b>86</b>    | ND          | NS            | <b>4.4</b> | <b>1,300</b> | ND        | ND         | ND             |
|  | 6/27/2008  | ND           | ND         | ND           | <b>290</b>   | ND          | <b>6.4</b>    | ND         | <b>2,700</b> | ND        | ND         | ND             |
|  | 10/1/2008  | ND           | <b>12</b>  | ND           | <b>300</b>   | ND          | <b>1,816</b>  | <b>4.1</b> | <b>1,500</b> | ND        | ND         | ND             |
| <b>BR-1</b>                                    | 5/24/2007  | ND           | <b>34</b>  | <b>3.6</b>   | <b>390</b>   | ND          | NS            | ND         | 77           | 3.1       | ND         | ND             |
|  | 12/19/2007 | ND           | <b>44</b>  | <b>5.0J</b>  | <b>550</b>   | ND          | <b>150</b>    | ND         | 110          | ND        | ND         | ND             |
|  | 6/26/2008  | ND           | <b>38</b>  | ND           | <b>500</b>   | ND          | <b>190</b>    | ND         | 79           | ND        | ND         | ND             |
| <b>BR-2</b>                                    | 8/30/2007  | ND           | <b>100</b> | ND           | <b>1,300</b> | ND          | <b>670</b>    | ND         | <b>2,300</b> | ND        | ND         | ND             |
|  | 12/19/2007 | ND           | <b>200</b> | ND           | <b>1,600</b> | ND          | <b>610</b>    | ND         | <b>2,600</b> | ND        | ND         | ND             |
|  | 6/27/2008  | ND           | <b>95</b>  | ND           | <b>1,000</b> | ND          | <b>320</b>    | ND         | <b>2,200</b> | ND        | ND         | ND             |
| <b>NCAC 2L Standard</b>                        |            | <b>3000</b>  | <b>6.0</b> | <b>0.4</b>   | <b>7.0</b>   | <b>70</b>   | <b>3.0</b>    | <b>0.7</b> | <b>200</b>   | <b>NS</b> | <b>3.0</b> | <b>0.03</b>    |
| <b>Risk Based Screening Level <sup>1</sup></b> |            | <b>NS</b>    | <b>65</b>  | <b>20</b>    | <b>38</b>    | <b>NS</b>   | <b>NS</b>     | <b>5.7</b> | <b>1500</b>  | <b>44</b> | <b>30</b>  | <b>1.5</b>     |

1. IHSB Residential Vapor Intrusion Screening Level for Groundwater, January 2010  
Concentrations Reported in Micrograms per Liter (µg/L)  
**Bold** = Concentration Exceeds NCAC 2L Standard  
NS = no standard

**TABLE 6**  
**Summary of Three Most Recent Surface Water Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well                              | Date       | Chloroethane  | 1,1-DCA      | 1,2-DCA   | 1,1-DCE     | cis-1,2-DCE | 1,4-Dioxane  | PCE        | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|-----------------------------------|------------|---------------|--------------|-----------|-------------|-------------|--------------|------------|--------------|-----------|------------|----------------|
| SW-A                              | 10/22/2007 | 1.8J          | 31           | 3.5       | 110         | ND          | 200          | ND         | 13           | ND        | 0.59J      | 18             |
| SW-1                              | 8/26/2005  | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 3/14/2006  | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 6/22/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-2                              | 8/26/2005  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 3/14/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 6/22/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-3                              | 8/26/2005  | ND            | ND           | ND        | 0.83        | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 3/14/2006  | ND            | ND           | ND        | 1.4         | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 6/22/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-4                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-5                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-6                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
| SW-7                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/23/2007  | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
| SW-8                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-9                              | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/23/2007  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-10                             | 6/23/2006  | ND            | ND           | ND        | ND          | ND          | 11           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-11                             | 6/23/2006  | ND            | ND           | ND        | 1.7         | ND          | 24           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007  | ND            | ND           | ND        | 2.2         | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 10/22/2007 | ND            | ND           | ND        | ND          | ND          | 24           | ND         | ND           | ND        | ND         | ND             |
| <b>NCAC 2B Standard</b>           |            | <b>550</b>    | <b>20000</b> | <b>37</b> | <b>5400</b> | <b>4900</b> | <b>110</b>   | <b>3.3</b> | <b>2500</b>  | <b>16</b> | <b>30</b>  | <b>2.4</b>     |
| <b>Risk Based Screening Level</b> |            | <b>190000</b> | <b>610</b>   | <b>40</b> | <b>3000</b> | <b>3900</b> | <b>20000</b> | <b>8.5</b> | <b>80000</b> | <b>61</b> | <b>370</b> | <b>38</b>      |

NOTES:

"NCAC 2B Standard" based on the most stringent of human health or freshwater aquatic life values, as applicable to a Class C water per 2-5-2010 EPA and NC standards and criteria  
Risk Based Screening Level calculated based on 45-day per year adolescent exposure frequency to Reedy Fork Creek (HHRA, July 2009)  
Concentrations Reported in Micrograms per Liter (µg/L)  
**Bold** = Concentration Exceeds NCAC 2B Standard

**TABLE 7**  
**Summary of Pore Water Sampling Events**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**  
**H&H Job No. WYM-002**

| Well                              | Date      | Chloroethane  | 1,1-DCA      | 1,2-DCA   | 1,1-DCE     | cis-1,2-DCE | 1,4-Dioxane  | PCE        | 1,1,1-TCA    | 1,1,2-TCA | TCE        | Vinyl Chloride |
|-----------------------------------|-----------|---------------|--------------|-----------|-------------|-------------|--------------|------------|--------------|-----------|------------|----------------|
| SW-4A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-5A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | NS           | ND         | ND           | ND        | ND         | ND             |
| SW-6A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-7A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/23/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-8A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-9A                             | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/23/2007 | ND            | ND           | ND        | ND          | ND          | 6.0          | ND         | ND           | ND        | ND         | ND             |
| SW-10A                            | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | 11           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| SW-11A                            | 6/23/2006 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
|                                   | 5/16/2007 | ND            | ND           | ND        | ND          | ND          | ND           | ND         | ND           | ND        | ND         | ND             |
| <b>NCAC 2B Standard</b>           |           | <b>550</b>    | <b>20000</b> | <b>37</b> | <b>5400</b> | <b>4900</b> | <b>110</b>   | <b>3.3</b> | <b>2500</b>  | <b>16</b> | <b>30</b>  | <b>2.4</b>     |
| <b>Risk Based Screening Level</b> |           | <b>190000</b> | <b>610</b>   | <b>40</b> | <b>3000</b> | <b>3900</b> | <b>20000</b> | <b>8.5</b> | <b>80000</b> | <b>61</b> | <b>370</b> | <b>38</b>      |

NOTES:

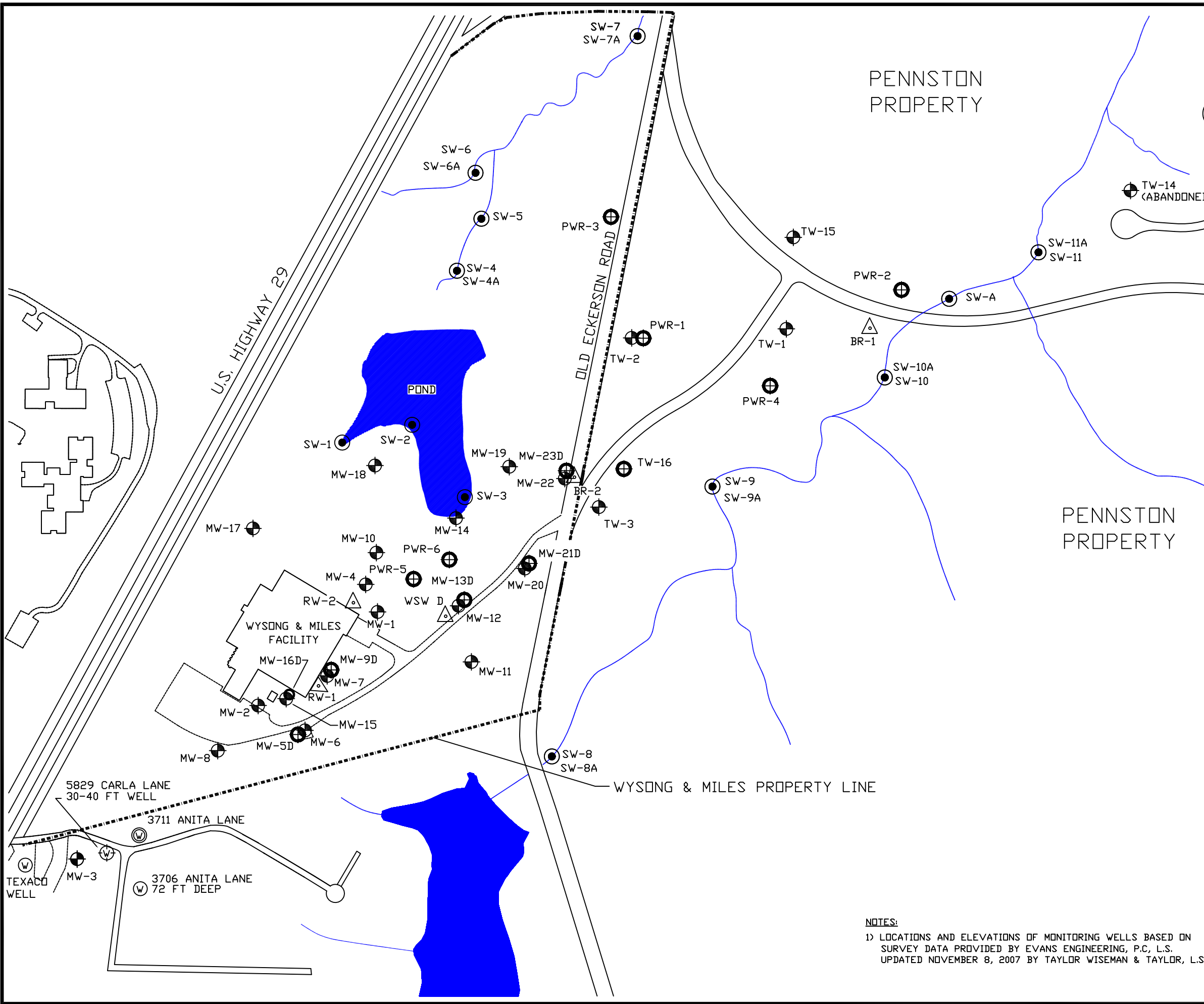
"NCAC 2B Standard" based on the most stringent of human health or freshwater aquatic life values, as applicable to a Class C water per 2-5-2010 EPA and NC standards and criteria  
Risk Based Screening Level calculated based on 45-day per year adolescent exposure frequency to Reedy Fork Creek (HHRA, July 2009)

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2B Standard



S:\AAA-Master Projects\Wysong & Miles - WY\MI\H&H 2009\RAPI\Figures\F2.3.7.11 Wysong Site Map.dwg, Model, 12/2/2009 11:58:44 AM



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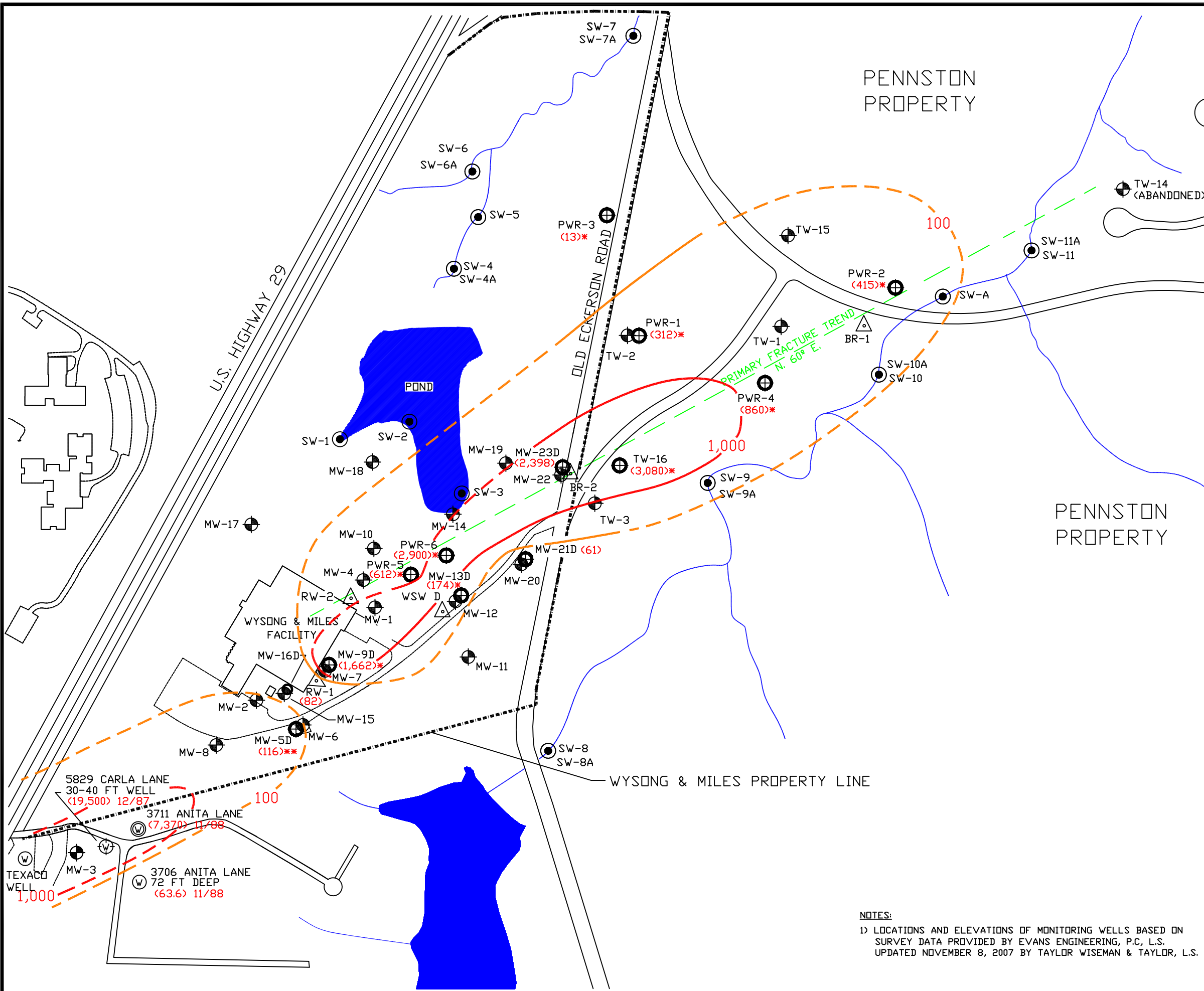
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- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE

APPROXIMATE  
 0 300 600  
 SCALE IN FEET

**NOTES:**  
 1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C., L.S. UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.

|  |                |
|--|----------------|
| SITE LAYOUT  |                |
| WYSONG & MILES<br>GREENSBORO, NORTH CAROLINA   |                |
| <b>Hart &amp; Hickman</b><br><small>A PROFESSIONAL CORPORATION</small>                       |                |
| 3334 Hillsborough Street<br>Raleigh, North Carolina 27607<br>919-847-4241(p) 919-847-4261(f) |                |
| DATE: 12/3/09  | REVISION NO. 0 |
| JOB NO: WYM-002  | FIGURE NO. 2   |

S:\AAA-Master Projects\Wysong & Miles - WYMH&H 2009\RAPI\Figures\F2.3.7.11 Wysong Site Map.dwg, Model, 12/22/2009 12:05:54 PM

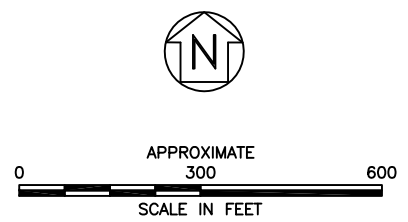


**LEGEND:**

- ⊕ SHALLOW MONITORING WELL
- △ RECOVERY WELL
- ⊕ INTERMEDIATE MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ⊙ WATER SUPPLY WELL
- ⊙ SURFACE WATER SAMPLE

**SAMPLING NOTES:**  
 TOTAL CVOC CONCENTRATIONS IN ug/L  
 \* JUNE 2008 DATA  
 \*\* JUNE 2006 DATA  
 ALL OTHER DATA OCTOBER 2008  
 UNLESS NOTED OTHERWISE.

PUMP & TREAT SYSTEM INACTIVE  
 OFF-SITE ISOPLETHS DRAWN BASED ON  
 DATA FROM 1987/1988. CURRENT EXTENT  
 AND CONCENTRATIONS OF RESIDUAL  
 IMPACTS IS NOT KNOWN



INTERPRETED CVOC ISOPLETHS (ug/L)  
 INTERMEDIATE GROUNDWATER  
 OCTOBER 2008

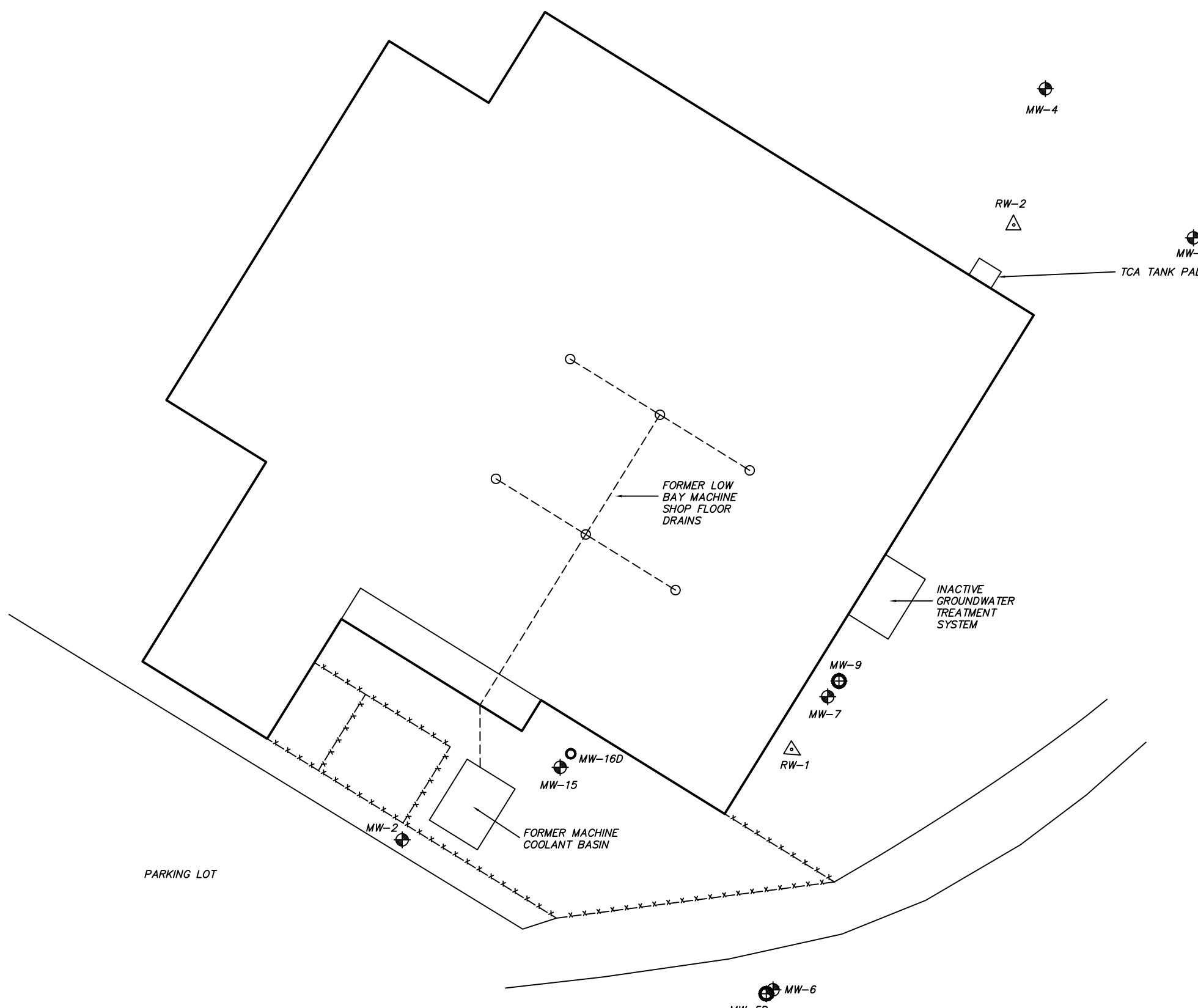
WYSONG & MILES  
 GREENSBORO, NORTH CAROLINA

**Hart & Hickman**  
 A PROFESSIONAL CORPORATION  
 3334 Hillsborough Street  
 Raleigh, North Carolina 27607  
 919-847-4241(p) 919-847-4261(f)

|                 |                |
|-----------------|----------------|
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002 | FIGURE NO. 3   |

**NOTES:**  
 1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON  
 SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C., L.S.  
 UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.

\\server1.hartandhickman.local\masterfiles\AAA-Master Projects\Wysong & Miles - WYM\H&H 2010\RAP\RAP Revision 3-2010\Figures\OH Figs 4,11,13,15 Wysong Facility.dwg, Fig 4, 4/7/2010 9:59:39 AM, mster



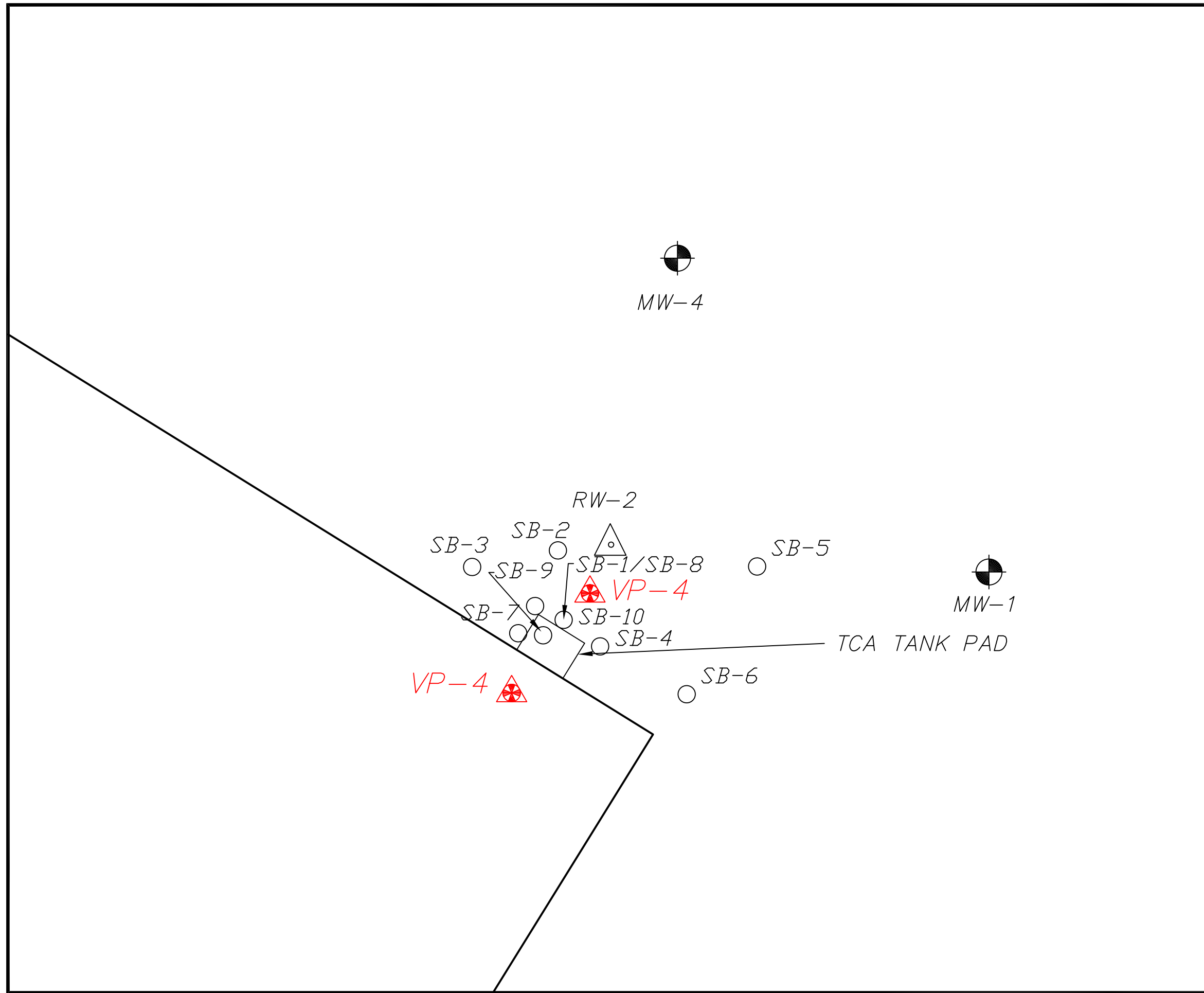
**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE
- SOIL VAPOR POINT

0                      50                      100  
 APPROXIMATE  
 SCALE IN FEET

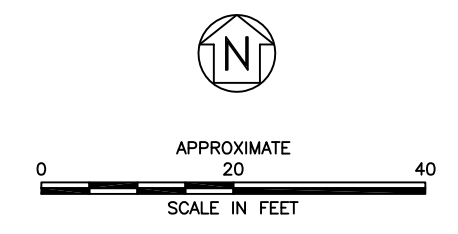
|   |                |
|---|----------------|
| TITLE   |                |
| SOURCE AREA LOCATIONS   |                |
| PROJECT   |                |
| WYSONG & MILES<br>GREENSBORO, NORTH CAROLINA  |                |
|   |                |
| <small>3334 Hillsborough Street<br/>         Raleigh, North Carolina 27607<br/>         919-847-4241 (p) 919-847-4261 (f)</small> |                |
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002   | FIGURE NO. 4   |

\\server1.hartandhickman.com\local\master\files\AAA-Master Projects\Wysong & Miles - WYM\H&H 2010\604\604P Renfish 3-2010\Figures\Figure 5.dwg, Fig 5, 4/8/2010 2:31:01 PM, mster



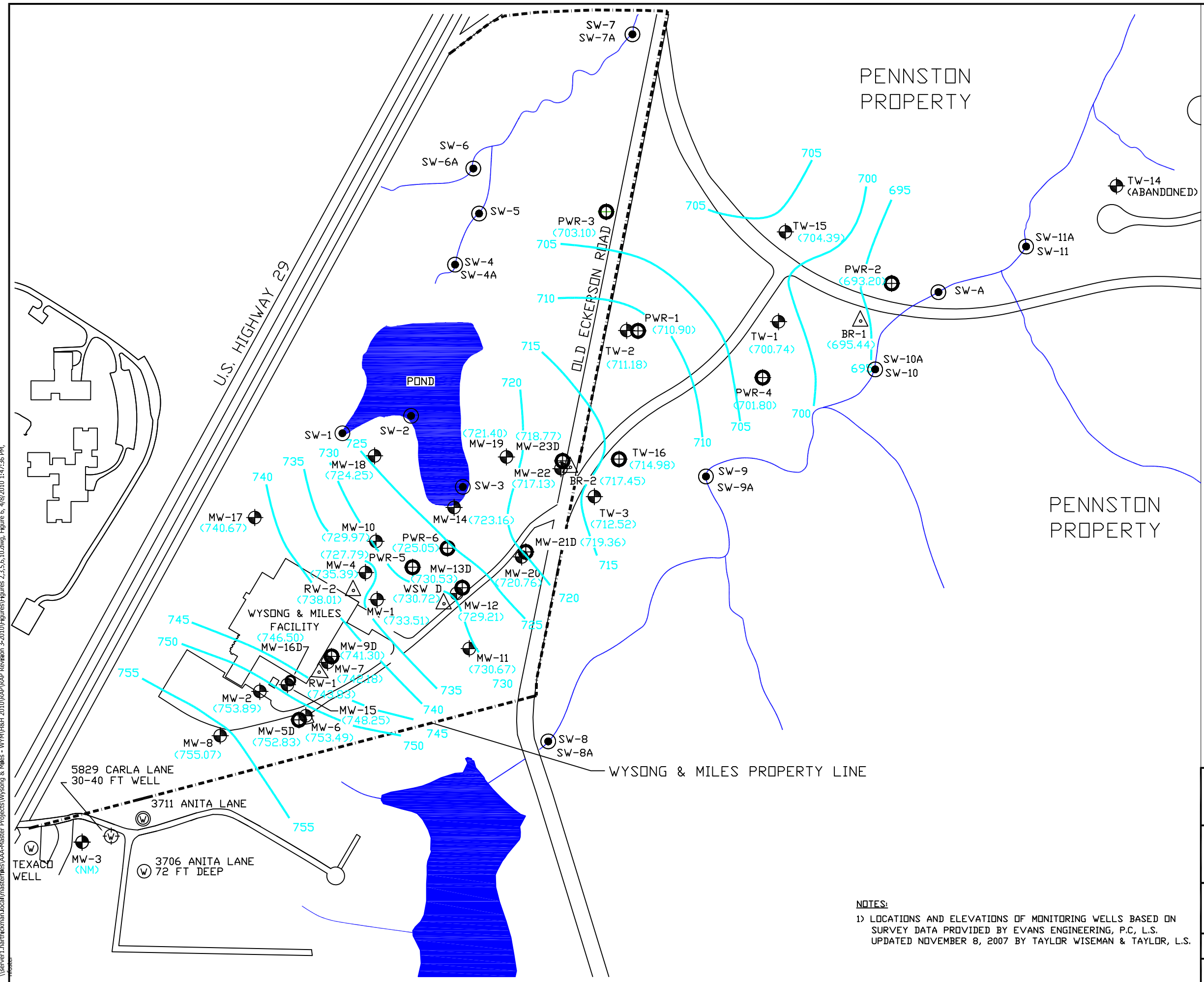
**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE
- SOIL VAPOR POINT
- SOIL BORING



|   |                |
|---|----------------|
| TITLE   |                |
| SOIL SAMPLE LOCATIONS AT THE TCA TANK AREA  |                |
| PROJECT   |                |
| WYSONG & MILES<br>GREENSBORO, NORTH CAROLINA  |                |
|   |                |
| <small>3334 Hillsborough Street<br/>Raleigh, North Carolina 27607<br/>919-847-4241 (p) 919-847-4261 (f)</small> |                |
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002   | FIGURE NO. 5   |

\\server1.hartickman.local\masterfiles\AAA-Master Projects\Wysong & Miles - WYM\H&H 2010\RAP\RAP Revision 3-2010\Figures\Figures 2,3,5,6,10.dwg, Figure 6, 4/8/2010 1:47:36 PM



**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE

PUMP & TREAT SYSTEM INACTIVE

APPROXIMATE  
 0 300 600  
 SCALE IN FEET

POTENTIOMETRIC SURFACE MAP  
OCTOBER 1, 2008

WYSONG & MILES  
GREENSBORO, NORTH CAROLINA

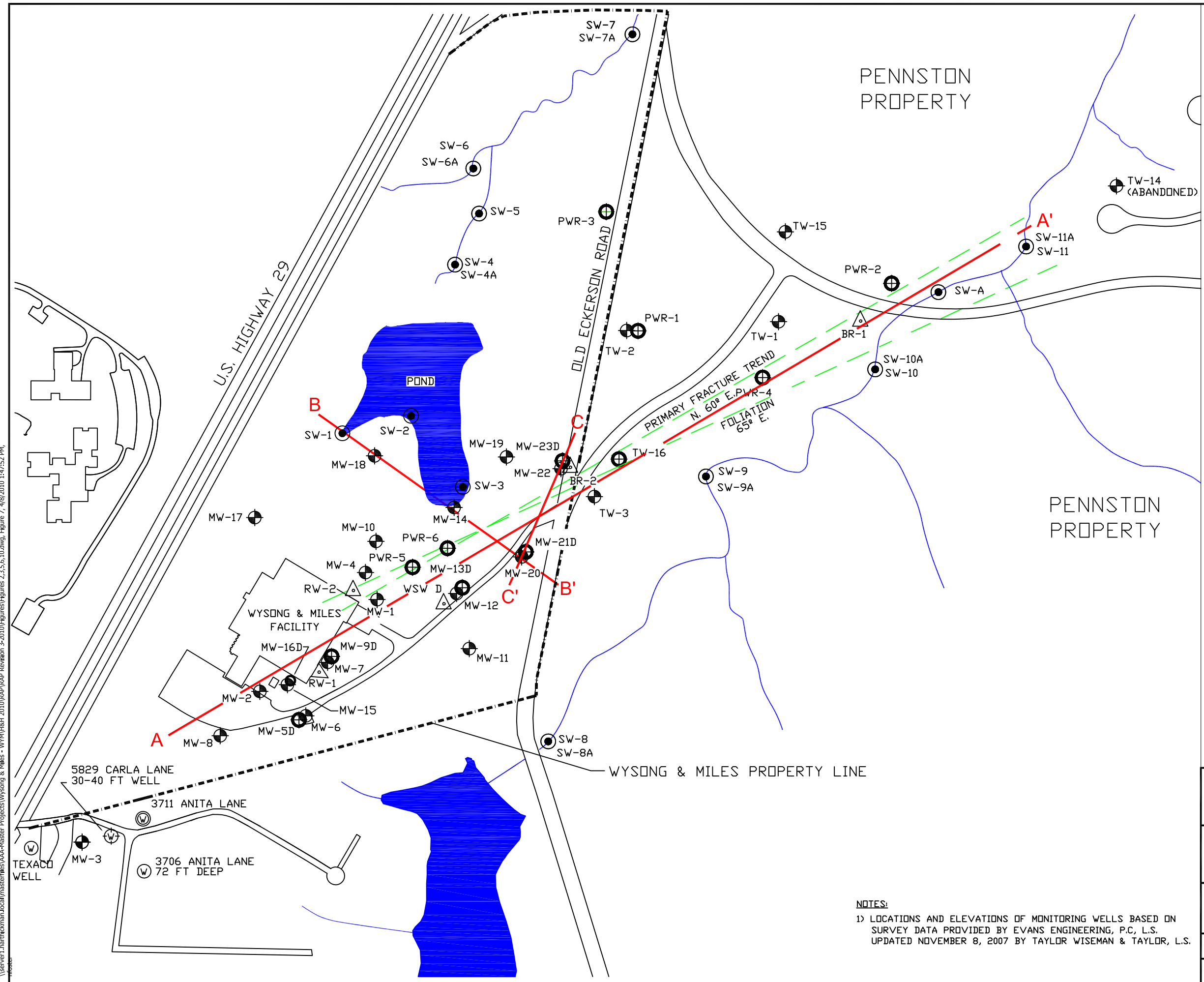
3334 Hillsborough Street  
 Raleigh, North Carolina 27607  
 A PROFESSIONAL CORPORATION 919-847-4241(p) 919-847-4261(f)

**NOTES:**  
 1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C., L.S. UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.

|                 |                |
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| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002 | FIGURE NO. 6   |



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**LEGEND:**

- ⊕ SHALLOW MONITORING WELL
- △ RECOVERY WELL
- ⊕ INTERMEDIATE MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ⊙ WATER SUPPLY WELL
- ⊙ SURFACE WATER SAMPLE

N

0      300      600  
SCALE IN FEET

GEOLOGIC CROSS-SECTION INDEX

WYSONG & MILES  
GREENSBORO, NORTH CAROLINA

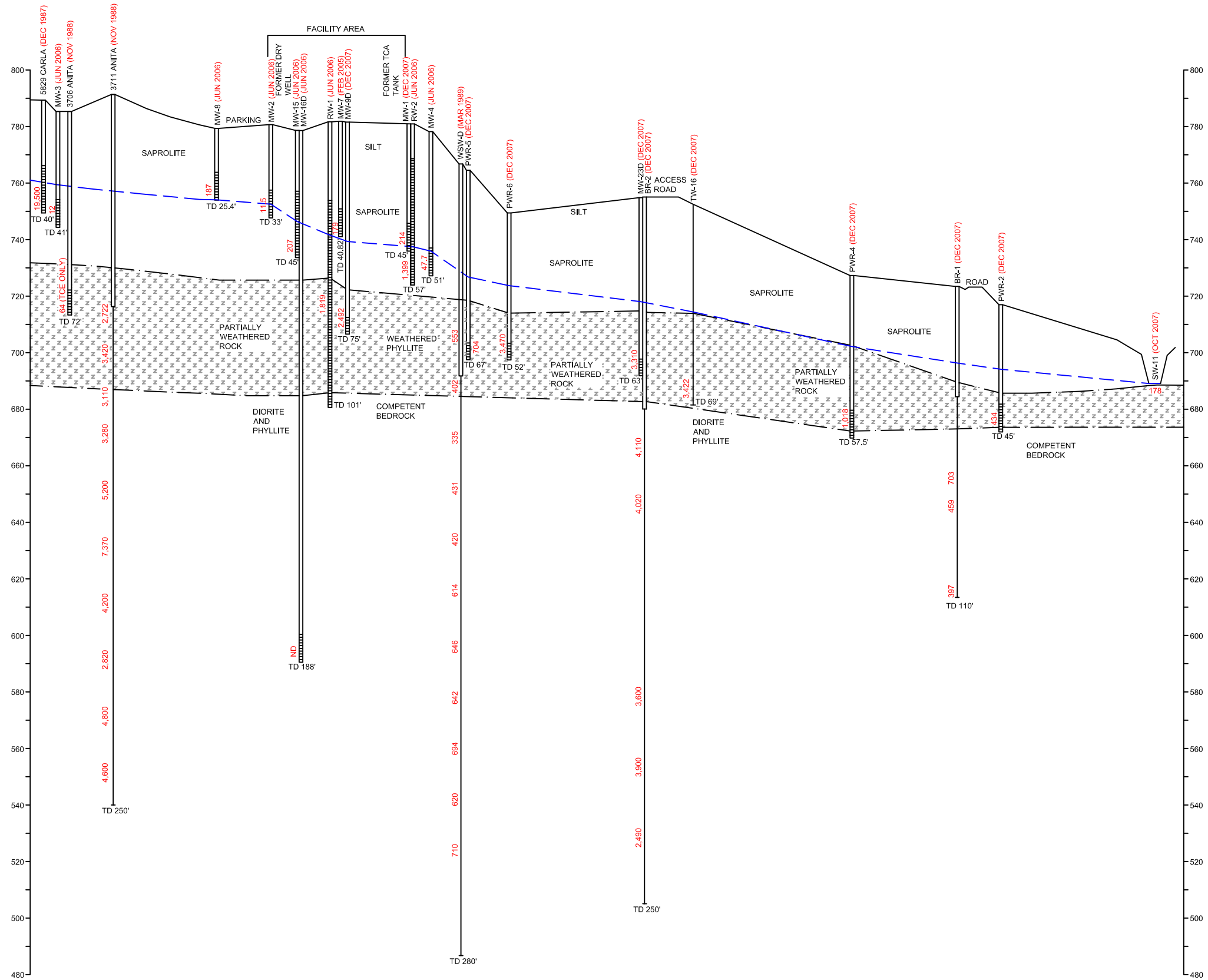
**Hart & Hickman** 3334 Hillsborough Street  
Raleigh, North Carolina 27607  
A PROFESSIONAL CORPORATION 919-847-4241(p) 919-847-4261(f)

**NOTES:**  
 1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C, L.S. UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.

|                 |                |
|-----------------|----------------|
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002 | FIGURE NO. 7   |

**A**  
SOUTHWEST

**A'**  
NORTHEAST




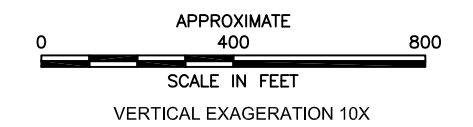
**NOTES:**


WATER LEVEL ELEVATIONS WERE MEASURED ON DECEMBER 17, 2007 BY HART & HICKMAN PERSONNEL

HISTORICAL CVOC SAMPLING DATA NOTED ABOVE MONITORING WELL

**LEGEND**

- 178 CVOC CONCENTRATION (µg/L)
-  PARTIALLY WEATHERED BEDROCK

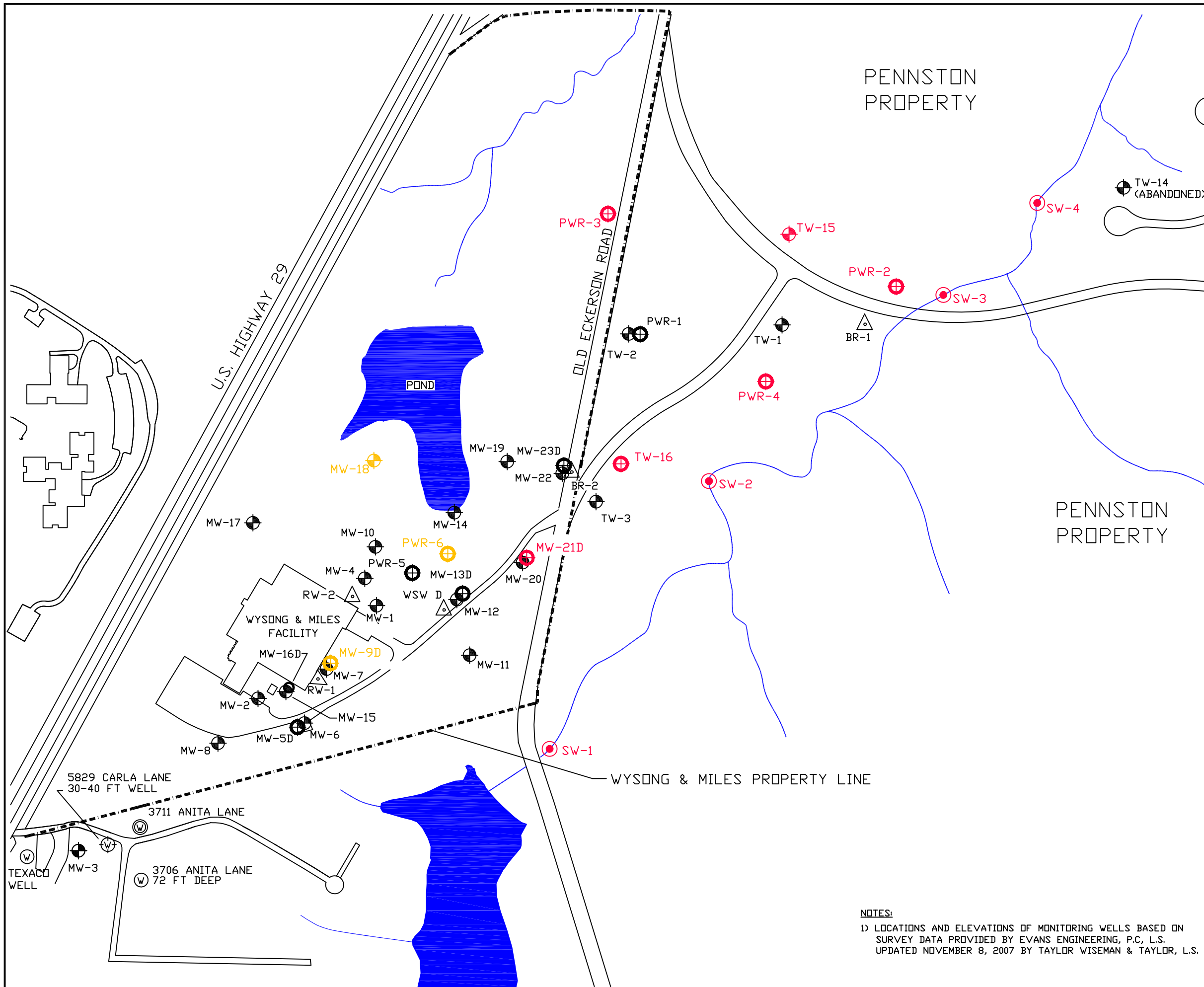


|   |                |
|---|----------------|
| TITLE   |                |
| CROSS-SECTION A-A'  |                |
| PROJECT   |                |
| WYSONG & MILES CORPORATION<br>GREENSBORO, NC  |                |
|  <span style="font-size: small;">3334 Hillsborough Street<br/>Raleigh, North Carolina 27607<br/>919-847-4241 (p) 919-847-4261 (f)</span> |                |
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM.002   | FIGURE NO. 8   |

\\server1.hartandhickman.local\masterfiles\AAA-Master Projects\Wysong & Miles - WYM\H&H 2010\604\604P\604P Revision 3-2010\Figures\Figure 8.dwg, A-A', 4/8/2010 1:49:30 PM, mster





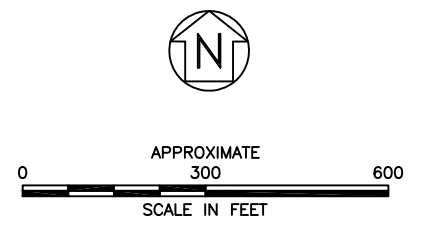


**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE

TW-15 RED DENOTES ANNUAL SAMPLING SCHEDULE

PWR-6 ORANGE DENOTES BIENNIAL SAMPLING SCHEDULE



LONG TERM MONITORING LOCATIONS

WYSONG & MILES  
GREENSBORO, NORTH CAROLINA

**Hart & Hickman**  
A PROFESSIONAL CORPORATION  
3334 Hillsborough Street  
Raleigh, North Carolina 27607  
919-847-4241 (p) 919-847-4261 (f)

**NOTES:**  
1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C., L.S. UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.

|                 |                |
|-----------------|----------------|
| DATE: 12/3/09   | REVISION NO. 0 |
| JOB NO: WYM-002 | FIGURE NO. 11  |

**CERTIFICATION STATEMENTS**

Remediating Party Certification:

"I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete".

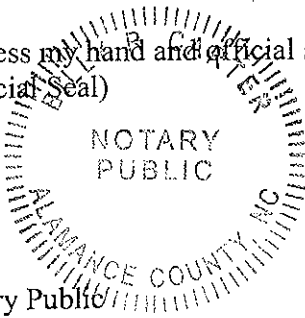
Russell Hall 4/15/10  
\_\_\_\_\_  
Russell Hall, President Date  
Wysong & Miles

North Carolina

Guilford County

I, Billy R Carter, a Notary Public for said County and State, do hereby certify that Russell Hall personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 15<sup>th</sup> day of April, 20 10.  
(Official Seal)



Notary Public  
My commission expires 9/27, 20 12.

Consultant Certification

"I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete".

Leonard Moretz

4-16-10

Leonard Moretz, LG  
Hart & Hickman, PC

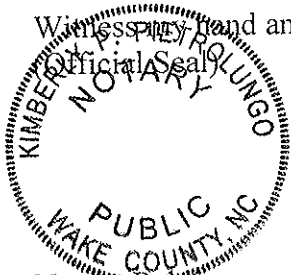
Date

North Carolina

Wake County

I, Kimberly P. Pietrolungo a Notary Public for said County and State, do hereby certify that Leonard Moretz personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 16 day of April, 20 10.



Notary Public  
My commission expires 3/28, 20 14.

and the elderly. The authors note that the elderly are often viewed as a homogeneous group, but in reality, they are a diverse population with varying needs and abilities. The study highlights the importance of tailoring interventions to the specific needs of different subgroups within the elderly population. The authors also discuss the role of family and community in supporting the elderly and the need for a holistic approach to geriatric care.

The study also explores the impact of social support on the well-being of the elderly. The authors find that social support is a significant predictor of mental health and quality of life in the elderly. They discuss the importance of fostering a sense of community and social connection among the elderly, and the role of social workers in facilitating these connections. The authors also note that social support can be particularly important for the elderly who are living alone or who have limited family resources.

In addition, the study examines the role of aging in the development of personality. The authors discuss how the experience of aging can lead to a greater sense of self-awareness and a more integrated personality. They note that the elderly often develop a more positive outlook on life and a greater appreciation for the present moment. The authors also discuss the importance of recognizing and validating the experiences and emotions of the elderly, and the role of social workers in providing a supportive and affirming environment.

The study also addresses the issue of aging and the environment. The authors discuss how the physical environment can impact the well-being of the elderly, and the importance of creating age-friendly environments. They note that factors such as accessibility, safety, and social interaction are all important considerations in the design of environments for the elderly. The authors also discuss the role of social workers in advocating for the needs of the elderly in the community and in the workplace.

Overall, the study provides a comprehensive overview of the challenges and opportunities of aging. The authors emphasize the need for a holistic and person-centered approach to geriatric care, and the importance of social support and community in promoting the well-being of the elderly. The study also highlights the role of social workers in providing a supportive and affirming environment for the elderly, and in advocating for their needs in the community and in the workplace.

**Table 1  
Summary of Ground Water Elevation Measurements**

**Wysong & Miles Facility  
Greensboro, North Carolina  
H&H Job No. WYM.001**

| Monitoring Well ID | Date Installed | Well Depth (ft - bgs) | Screen Length (ft.) | Well TOC Elevation (ft) | 10/22/2007          |                             | 12/17/2007          |                             | 3/27/2008           |                             | 6/25/2008           |                             | 10/1/2008           |                             |
|--------------------|----------------|-----------------------|---------------------|-------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|
|                    |                |                       |                     |                         | Depth to Water (ft) | Ground Water Elevation (ft) | Depth to Water (ft) | Ground Water Elevation (ft) | Depth to Water (ft) | Ground Water Elevation (ft) | Depth to Water (ft) | Ground Water Elevation (ft) | Depth to Water (ft) | Ground Water Elevation (ft) |
| MW-1               | 1/20/1988      | 45                    | 10                  | 772.75                  | Wet                 | -                           | 41.67               | 731.01                      | NM                  | -                           | 39.21               | 733.54                      | 39.24               | 733.51                      |
| MW-2               | 1/22/1988      | 33                    | 10                  | 779.65                  | 27.78               | 751.87                      | 28.15               | 751.50                      | NM                  | -                           | NM                  | -                           | 25.76               | 753.89                      |
| MW-3               | 1/27/1988      | 41                    | 10                  | 799.43                  | 28.49               | 770.94                      | 27.78               | 771.65                      | NM                  | -                           | NM                  | -                           | Destroyed           |                             |
| MW-4               | 9/8/1988       | 51                    | 10                  | 777.19                  | 43.17               | 734.02                      | 42.31               | 734.88                      | NM                  | -                           | NM                  | -                           | 41.80               | 735.39                      |
| MW-5D              | 9/13/1988      | 78                    | 5                   | 778.31                  | 27.70               | 750.61                      | 27.68               | 750.63                      | NM                  | -                           | NM                  | -                           | 25.48               | 752.83                      |
| MW-6               | 9/14/1988      | 30.5                  | 10                  | 778.33                  | 27.08               | 751.25                      | 27.18               | 751.15                      | NM                  | -                           | NM                  | -                           | 24.84               | 753.49                      |
| MW-7               | 9/15/1988      | 40.82                 | 10                  | 780.84                  | Dry                 | -                           | Dry                 | -                           | NM                  | -                           | NM                  | -                           | 38.66               | 742.18                      |
| MW-8               | 9/15/1988      | 25.4                  | 10                  | 778.34                  | Dry                 | -                           | 25.31               | 753.03                      | NM                  | -                           | NM                  | -                           | 23.27               | 755.07                      |
| MW-9D              | 7/19/1989      | 75                    | 5                   | 780.55                  | 43.53               | 737.02                      | 42.25               | 738.30                      | NM                  | -                           | 39.93               | 740.62                      | 39.25               | 741.30                      |
| MW-10              | 6/28/1989      | 49.5                  | 10                  | 775.20                  | 47.11               | 728.09                      | 46.54               | 728.66                      | NM                  | -                           | 45.01               | 730.19                      | 45.23               | 729.97                      |
| MW-11              | 6/28/1989      | 30                    | 10                  | 754.66                  | 26.48               | 728.08                      | 26.95               | 727.61                      | NM                  | -                           | NM                  | -                           | 23.89               | 730.67                      |
| MW-12              | 6/27/1989      | 37                    | 10                  | 760.92                  | 36.96               | 723.96                      | 36.71               | 724.21                      | NM                  | -                           | NM                  | -                           | 31.71               | 729.21                      |
| MW-13D             | 7/21/1989      | 82                    | 5                   | 760.72                  | 57.87               | 702.85                      | 35.19               | 725.53                      | NM                  | -                           | 30.84               | 729.88                      | 30.19               | 730.53                      |
| MW-14              | 11/15/1990     | 11                    | 5                   | 728.87                  | 9.70                | 719.17                      | 7.35                | 721.52                      | 5.84                | 723.03                      | 5.68                | 723.19                      | 5.71                | 723.16                      |
| MW-15              | 6/25/1992      | 45                    | 20                  | 777.61                  | 32.87               | 744.74                      | 32.25               | 745.36                      | NM                  | -                           | NM                  | -                           | 29.36               | 748.25                      |
| MW-16D             |                | 188                   | 5-10                | 777.53                  | 50.14               | 727.39                      | 45.85               | 731.68                      | NM                  | -                           | NM                  | -                           | 31.03               | 748.50                      |
| MW-17              | 6/25/1992      | 33.5                  | 10                  | 771.46                  | 31.62               | 739.84                      | 32.10               | 739.36                      | NM                  | -                           | NM                  | -                           | 30.79               | 740.67                      |
| MW-18              | 6/23/1992      | 27.5                  | 10                  | 747.91                  | 27.20               | 720.71                      | 24.44               | 723.47                      | NM                  | -                           | NM                  | -                           | 23.66               | 724.25                      |
| MW-19              | 6/24/1992      | 23                    | 10                  | 740.58                  | 22.83               | 717.75                      | 20.61               | 719.97                      | NM                  | -                           | NM                  | -                           | 19.18               | 721.40                      |
| MW-20              | 6/26/1992      | 33.06                 | 10                  | 753.45                  | Dry                 | -                           | Dry                 | -                           | Dry                 | -                           | 32.67               | 720.78                      | 32.69               | 720.76                      |
| MW-21D             |                | 79.5                  | 5                   | 753.05                  | 37.61               | 715.44                      | 36.86               | 716.19                      | 35.31               | 717.74                      | 33.52               | 719.53                      | 33.69               | 719.36                      |
| MW-22              |                | 42.77                 | 10                  | 753.28                  | 38.04               | 715.24                      | 37.91               | 715.37                      | 36.96               | 716.32                      | 35.47               | 717.81                      | 36.15               | 717.13                      |
| MW-23D             |                | 63                    | 5                   | 753.81                  | 37.44               | 716.37                      | 36.78               | 717.03                      | 35.39               | 718.42                      | 34.31               | 719.50                      | 35.04               | 718.77                      |
| RW-1               | 7/24/1989      | 101                   | 75                  | 780.63                  | 75.80               | 704.83                      | 40.09               | 740.54                      | NM                  | -                           | 37.38               | 743.25                      | 36.80               | 743.83                      |
| RW-2               | 7/20/1989      | 57                    | 45                  | 779.90                  | Dry                 | -                           | 43.43               | 736.47                      | NM                  | -                           | 42.46               | 737.44                      | 41.89               | 738.01                      |
| WSW-D              | Circa 1970's   | 280                   | Open                | 761.34                  | 72.01               | 689.33                      | 35.58               | 725.76                      | 33.34               | 728.00                      | 31.29               | 730.05                      | 30.62               | 730.72                      |
| TW-1               |                | 49.5                  |                     | 734.41                  | 33.72               | 700.69                      | 33.97               | 700.44                      | NM                  | -                           | 32.73               | 701.68                      | 33.67               | 700.74                      |
| TW-2               |                | 56                    |                     | 761.55                  | 50.14               | 711.41                      | 50.46               | 711.09                      | NM                  | -                           | NM                  | -                           | 50.37               | 711.18                      |
| TW-3               |                | 50                    |                     | 748.73                  | 38.03               | 710.70                      | 37.96               | 710.77                      | NM                  | -                           | NM                  | -                           | 36.21               | 712.52                      |
| TW-15              |                | 33.5                  |                     | 734.14                  | 29.41               | 704.73                      | 29.78               | 704.36                      | NM                  | -                           | 28.51               | 705.63                      | 29.75               | 704.39                      |
| TW-16              |                | 69                    |                     | 751.48                  | 37.90               | 713.58                      | 38.10               | 713.38                      | NM                  | -                           | 35.99               | 715.49                      | 36.50               | 714.98                      |
| PWR-1              | 7/19/2006      | 73                    | 10                  | 761.23                  | 50.07               | 711.16                      | 50.48               | 710.75                      | NM                  | -                           | 49.79               | 711.44                      | 50.33               | 710.90                      |
| PWR-2              | 7/20/2006      | 45                    | 10                  | 715.98                  | 24.28               | 691.70                      | 22.86               | 693.12                      | NM                  | -                           | 22.59               | 693.39                      | 22.78               | 693.20                      |
| PWR-3              | 5/15/2007      | 73.5                  | 10                  | 741.05                  | 38.73               | 702.32                      | 38.45               | 702.60                      | NM                  | -                           | 37.78               | 703.27                      | 37.95               | 703.10                      |
| PWR-4              | 5/16/2007      | 57.5                  | 10                  | 726.28                  | 26.87               | 699.41                      | 25.11               | 701.17                      | NM                  | -                           | 23.94               | 702.34                      | 24.48               | 701.80                      |
| PWR-5              | 5/22/2007      | 67                    | 10                  | 763.52                  | 39.84               | 723.68                      | 37.77               | 725.75                      | NM                  | -                           | 35.52               | 728.00                      | 35.73               | 727.79                      |
| PWR-6              | 8/2/2007       | 52                    | 10                  | 748.42                  | 27.08               | 721.34                      | 25.74               | 722.68                      | NM                  | -                           | 23.17               | 725.25                      | 23.37               | 725.05                      |
| BR-1               | 5/21/2007      | 110                   | Open                | 722.41                  | 28.51               | 693.90                      | 27.11               | 695.30                      | NM                  | -                           | 26.06               | 696.35                      | 26.97               | 695.44                      |
| BR-2               | 7/31/2007      | 250                   | Open                | 754.05                  | 38.83               | 715.22                      | 38.16               | 715.89                      | 37.26               | 716.79                      | 35.95               | 718.10                      | 36.60               | 717.45                      |

**Notes:**  
TOC = Top of Casing  
BGS = Below Grade Surface



the study. The first author (J.M.H.M.S.) was involved in the design and implementation of the study, data analysis and interpretation, and in writing the manuscript. The second author (M.J.M.) was involved in the design and implementation of the study, data analysis and interpretation, and in writing the manuscript. The third author (J.M.M.) was involved in the design and implementation of the study, data analysis and interpretation, and in writing the manuscript. The fourth author (J.M.M.) was involved in the design and implementation of the study, data analysis and interpretation, and in writing the manuscript. The fifth author (J.M.M.) was involved in the design and implementation of the study, data analysis and interpretation, and in writing the manuscript.

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Correspondence: Dr. J. M. H. M. Stehouwer, Department of Internal Medicine, University Hospital Groningen, P.O. Box 30.001, 3000 RB Groningen, The Netherlands. (fax: +31 6 30 61 24 24; e-mail: j.m.h.m.stehouwer@azg.umcg.nl).

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GROUNDWATER & SURFACE WATER  
MONITORING REPORT

Prepared for:

Delta Phoenix Inc

Doa: Wysong Parts and Service

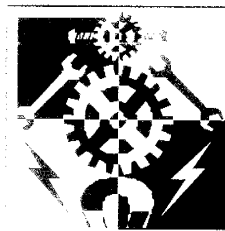
SITE:

WYSONG & MILES COMPANY  
GREENSBORO, NORTH CAROLINA  
NCD 982 156 812

Prepared by

Piedmont Industrial Services, Inc.  
1680 Lowery Street  
Winston-Salem NC 27101

February 15, 2012



  
Thomas P. Lennon, P.E.  
Project Manager

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APPENDIX

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## 1.0 Introduction

The former Wysong & Miles facility (PCE 982 156 812) is located at 4820 US 29 North in Greensboro, North Carolina (Figure 1). Piedmont Industrial Services, Inc. (Piedmont) presents the following Groundwater and Surface Water Monitoring Report on behalf of Delta Phoenix, Inc., doing business as, Wysong Paris and Service (Wysong). The following monitoring program was conducted at the request of Robert Modanil with the NCDENR-Hazardous Waste Section (see Appendix A) to determine the current contaminant concentrations present at the site. As indicated in the email attachment, the NCDENR requested environmental sampling to be conducted on the following nine wells:

|        |       |       |
|--------|-------|-------|
| MW-9D  | PWR-2 | RW-2  |
| MW-14  | PWR-7 | TW-15 |
| MW-23D | PWR-8 | TW-16 |

In addition to the above, the NCDENR requested surface water sampling of the eastern tributary of Reedy Fork Creek in sampling locations SW-1 and SW-4. The groundwater and surface water sampling event was conducted on January 9-10, 2018. All collected samples were analyzed by EPA Method 8260B and 1,4-dioxane by 8260B SIM Method.

A site map illustrating the location of the monitoring wells and surface water sample location are shown in Figures 2 and 3. Piedmont has generated the following report based on previously submitted environmental assessment reports in addition to current assessment data compiled during the 2018 sampling event.

## 2.0 Groundwater Monitoring Data

On January 9-10, 2018, Piedmont completed the groundwater sampling event for the above reference wells located at the site. Well MW-14 could not be sampled as the result of no water was observed in the well. The eight remaining wells were sampled by using the low-flow purging of the wells and a flow cell in accordance the EPA Region 4, Science and Ecosystem Support Division Groundwater Sampling Document. A summary of the water table depths and geochemical data collected at the time of sample collection are presented in Table 1. A total of three 55-gallon drums of Investigation Derived Waste were generated as a result of the sampling event. A composite sample (ID: Purge Decon Composite) was collected for laboratory analysis for disposal profiling.

Following sample collection, all acquired samples were stored in coolers and packed in ice to maintain a temperature of 4° C. The groundwater samples were shipped via to Prism Laboratories, Inc. located in Charlotte, North Carolina. In accordance with the SAP, the acquired samples were analyzed for the detection of volatile organic compounds using EPA Method 8260B and 1,4-dioxane by 8260B SIM Method.

Table 2 summarizes all compounds and concentrations detected during the most recent sampling event and offers a comparative analysis with the previous analytical results. Copies of the laboratory report and chain of custody for the recent sampling events are included as Appendix B.

As indicated in Table 2, the following targeted compounds were detected above North Carolina 2L Groundwater Quality Standards in the collected groundwater samples: 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA, 1,1); dichloroethene (1,1-DCE); 1,4-dioxane; tetrachloroethylene (PCE); 1,1,1-trichloroethane (1,1,1-TCA); trichloroethene (TCE) and vinyl chloride. In general, detected contaminant concentrations exceeding the standard were evidenced in similar concentrations to those previously detected at the site.

A total of three 55-gallon drums of Investigation Derived Waste were generated as a result of the groundwater sampling event. A copy of the analytical results (Appendix B) for the composite sample (ID: Purge Decan. Composite) collected for laboratory analysis was provided to A&D Environmental for disposal profiling. Based on their review, the drums were disposed of as a non-hazardous waste on February 14, 2018. A copy of the waste disposal profile and manifests attached in Appendix C.

### 3.0 Surface Water Monitoring Data

On January 9, 2018, two surface water samples (SW-1 and SW-4) were collected from an unnamed tributary of Reedy Fork Creek located on an adjacent property to the northeast of the Wylong & Miles facility. The approximate locations of collection for the surface water samples are depicted in Figure 3.

All surface water samples were collected in accordance with the EPA Region 4, Science and Ecosystem Support Division Surface Water Sampling Document. Following sample collection, all acquired samples were stored in coolers and packed in ice to maintain a temperature of 4° C. A summary of geochemical parameters measured during sample collection are summarized in Table 1. The collected samples were shipped via to Prism Laboratories, in Charlotte, North Carolina. The surface water samples collected were analyzed for the detection of volatile organic compounds using EPA Method 8260B and 1,4-dioxane by 8260B SIM Method.

Laboratory results for the collected samples are summarized in Table 3 along with the results of the three prior sampling events for comparative analysis. Laboratory samples SW-1 and SW-4 did not indicate the presence of detectable concentrations of any targeted compounds in excess of North Carolina 2B Surface Water Standards. Copies of the laboratory reports and chain of custody for the above mention sampling events are included as Appendix B.

## 5.0 Conclusions

On January 9-10, 2018, Piedmont completed the NCDENR requested groundwater and surface water sampling event at the former Wysock & Miles facility (NCD 982-156-012). The following is a summary of results:

- a. A total of eight groundwater samples were collected for laboratory analysis. The following compounds were detected above North Carolina 2L Groundwater Quality Standards in the collected groundwater samples: 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); 1,1,1-trichloroethane (1,1,1-TCE); 1,4-dioxane; tetrachloroethylene (PCE); 1,1,1-trichloroethane (1,1,1-TCA); trichloroethene (TCE); and vinyl chloride. In general, detected contaminant concentrations exceeding the standard were evidenced in similar concentrations to those previously detected at the site.
- b. On January 9, 2018, two surface water samples (SW-1 and SW-4) were collected from an unnamed tributary of Reedy Fork Creek located on an adjacent property to the northeast of the Wysock & Miles facility. Laboratory samples SW-1 and SW-4 did not indicate the presence of detectable concentrations of any targeted compounds in excess of North Carolina 2B Surface Water Standards.
- c. A total of three 55-gallon drums of Investigation Derived Waste were generated as a result of the groundwater sampling event. The drums were disposed of as a non-hazardous waste by A.&D. Environmental on February 14, 2015.

**Table 1**  
**2018 Sampling Event Data**  
**Wysong Miles Corporation**  
**Greensboro, NC**

| Well   | TD   | DGW   | Volume purged | Sampled date | Sampled Time | ORP (MV) | TURB (NTU) | SPC ( $\mu\text{s/cm}$ ) | Temp ( C ) | PH   | DO (mg/l) |
|--------|------|-------|---------------|--------------|--------------|----------|------------|--------------------------|------------|------|-----------|
| MW-9D  | 75.9 | 36.33 | 13 GAL        | 1/10/2018    | 10:00:00 AM  | -177.90  | 0.35       | 125.7                    | 17.9       | 8.1  | 0.53      |
| MW-14  | 9.2  | 8.75  | DRY           | DRY          | DRY          | DRY      | DRY        | DRY                      | DRY        | DRY  | DRY       |
| MW-23D | 65.2 | 29.30 | 9 GAL         | 1/10/2018    | 9:00:00 AM   | -167.90  | 2.99       | 65.07                    | 15.2       | 14.0 | 6.4       |
| PWR-2  | 45.0 | 23.08 | 11 GAL        | 10/10/2018   | 9:00:00 AM   | -40.30   | 14         | 125.2                    | 15.8       | 6.2  | 13.22     |
| PWR-7  | 34.8 | 13.07 | 6 GAL         | 1/9/2018     | 11:46:00 AM  | 17.30    | 28         | 96.2                     | 14.7       | 6.4  | 5.27      |
| PWR-8  | 32.9 | 14.24 | 20 GAL        | 1/9/2018     | 10:45:00 AM  | 23.10    | 52.7       | 107.4                    | 14.9       | 6.2  | 5.69      |
| RW-2   | 57.0 | 39.35 | 20 GAL        | 1/10/2018    | 11:00:00 AM  | 83.40    | 9.23       | 143.4                    | 17.9       | 7.1  | 5.22      |
| TW-15  | 33.7 | 30.63 | 1.2 GAL       | 1/10/2018    | 8:20:00 AM   | -61.30   | 50.4       | 181.1                    | 13.6       | 12.5 | 8.65      |
| TW-16  | 71.2 | 36.75 | 15 GAL        | 1/9/2017     | 2:30:00 PM   | -8.12    | 5.85       | 151.8                    | 15.7       | 6.6  | 2.19      |
| SW-4   | NA   | NA    | NA            | 1/9/2018     | 11:00:00 AM  | -24.80   | 1.67       | 96.5                     | 0.3        | 6.5  | 21.92     |
| SW-1   | NS   | NA    | NA            | 1/9/2018     | 12:10:00 PM  | -45.80   | 5.1        | 92.6                     | 4.9        | 6.8  | 12.71     |

Table 2  
 Summary of Four Most Recent Groundwater Sampling Events  
 Wysong & Miles Corporation  
 Greensboro, North Carolina

| Well                               | Date       | Chloroethane | 1,1-DCA  | 1,2-DCA  | 1,1-DCE  | cis-1,2-DCE | 1,4-Dioxane | PCE      | 1,1,1-TCA | 1,1,2-TCA | TCE      | Chloroform | xylene   | MTBE     | Acetone  | 1,2,4<br>Trimethylbenzene | 1,3,5<br>Trimethylbenzene | Vinyl Chloride |
|------------------------------------|------------|--------------|----------|----------|----------|-------------|-------------|----------|-----------|-----------|----------|------------|----------|----------|----------|---------------------------|---------------------------|----------------|
| MW-1                               | 6/22/2006  | ND           | 9.6      | ND       | 720      | ND          | NS          | 1        | 140       | 2         | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 12/19/2007 | ND           | 11       | ND       | 70       | ND          | 170         | 1.2      | 130       | 2.1       | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/26/2008  | ND           | 13       | ND       | 55       | ND          | 140         | 1.2      | 92        | 1.9       | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-2                               | 8/25/2005  | ND           | ND       | ND       | 12.5     | ND          | NS          | ND       | 3.78      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | ND       | ND       | 13.6     | ND          | NS          | ND       | 4.08      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/19/2006  | ND           | ND       | ND       | 8.7      | ND          | NS          | ND       | 2.8       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-3                               | 8/17/2004  | ND           | 1.02     | 2.1      | 3.73     | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | 1.47     | 2.32     | ND       | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/20/2006  | ND           | 2.8      | 2        | 6        | ND          | NS          | ND       | 1.2       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-4                               | 8/25/2005  | ND           | ND       | ND       | 38.7     | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | 2.4      | ND       | 20.2     | ND          | NS          | ND       | 2.4       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/20/2006  | ND           | 1.8      | ND       | 44       | ND          | NS          | ND       | 1.9       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-5D                              | 8/25/2005  | ND           | ND       | ND       | 87.5     | ND          | NS          | ND       | 27.3      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | ND       | ND       | 96.4     | ND          | NS          | ND       | 25.5      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/23/2006  | ND           | 2.2      | ND       | 92       | ND          | NS          | ND       | 26        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-6                               | 8/17/2004  | ND           | ND       | ND       | ND       | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | ND       | ND       | ND       | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/22/2006  | ND           | ND       | ND       | ND       | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-8                               | 8/25/2005  | ND           | ND       | ND       | 121      | ND          | NS          | ND       | 37.8      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 3/13/2006  | ND           | ND       | ND       | 122      | ND          | NS          | ND       | 36.4      | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/22/2006  | ND           | 6.7      | ND       | 140      | ND          | NS          | ND       | 40        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-9D                              | 3/13/2006  | ND           | ND       | ND       | ND       | ND          | NS          | ND       | 1,560     | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 12/19/2007 | ND           | 85       | ND       | 390      | ND          | 240         | 9.1J     | 2,000     | 7.4J      | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 6/26/2008  | ND           | 60       | ND       | 290      | ND          | 1,662       | 6.3J     | 1,300     | 5.4J      | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                                    | 1/10/2018  | 0.77         | 93       | 0.57     | 210      | ND          | 29          | 9.5      | 630       | 6.3       | 2.4      | 0.6        | 3.5      | ND       | 1.3      | 1.5                       | 0.65                      |                |
| <b>NCAC 2L Standard</b>            |            | 3000         | 6        | 0.4      | 7.0      | 70          | 3.0         | 0.7      | 200       | NS        | 3        | 70         | 500      | 20       | 6000     | 400                       | 400                       | 0.015          |
| <b>Groundwater Screening Level</b> |            | 4.60E+03     | 7.60E+01 | 2.20E+01 | 3.90E+01 | NA          | NA          | 1.20E+01 | 1.50E+03  | 1.20E+00  | 1.00E+00 | 8.10E+00   | 9.80E+01 | 4.50E+03 | 4.50E+06 | 5.00E+01                  | 3.50E+01                  | 1.5            |

Concentrations Reported in Micrograms per Liter (µg/L)

Bold = Concentration Exceeds NCAC 2L Standard

Piedmont ind = 2018 sampling event

TABLE 2  
Summary of Four Most Recent Groundwater Samples  
Wysong & Miles Corporation  
Greensboro, North Carolina

| Well                        | Date       | Chloroethane | 1,1-DCA  | 1,2-DCA  | 1,1-DCE | cis-1,2-DCE | 1,4-Dioxane | PCE      | 1,1,1-TCA | 1,1,2-TCA | TCE      | Chloroform | xylene   | MTBE     | Acetone  | 1,2,4<br>trimethylbenzene | 1,3,5<br>trimethylbenzene | Vinyl Chloride |
|-----------------------------|------------|--------------|----------|----------|---------|-------------|-------------|----------|-----------|-----------|----------|------------|----------|----------|----------|---------------------------|---------------------------|----------------|
| MW-10                       | 6/22/2006  | ND           | 14       | 7.9      | 870     | ND          | NS          | ND       | 60        | 2.2       | 1.5      | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 12/19/2007 | ND           | 15       | 9.0      | 870     | ND          | 952         | 1.7      | 52        | 2.5       | 1.8J     | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/26/2008  | ND           | 10       | 7.1      | 350     | ND          | 405         | 1.1      | 31        | 2.2       | 1.1J     | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-11                       | 8/16/2004  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | 5.22     | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 3/13/2006  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | 3.82     | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/21/2006  | ND           | ND       | ND       | ND      | 1.1         | NS          | ND       | ND        | ND        | 4.1      | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-12                       | 5/17/1995  | ND           | ND       | ND       | 2.4     | ND          | NS          | ND       | 2.1       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-13D                      | 6/22/2006  | ND           | 13       | ND       | 72      | ND          | NS          | ND       | 22        | ND        | 1.8      | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 12/19/2007 | ND           | 13       | 0.71J    | 130     | ND          | 62          | 0.62J    | 45        | ND        | 0.71J    | ND         | ND       | ND       | ND       | ND                        | ND                        | 1.2J           |
|                             | 6/25/2008  | ND           | 8.4      | ND       | 140     | ND          | 174         | ND       | 26        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-14                       | 3/27/2008  | ND           | 97       | 8.6J     | 1,100   | ND          | 520         | ND       | 550       | 6.3J      | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/27/2008  | ND           | 110      | 9.2J     | 1,700   | ND          | 2,576       | ND       | 750       | 6.4J      | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 10/1/2008  | ND           | 100      | 8.6J     | 1,400   | ND          | 490         | ND       | 540       | 6.2J      | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-15                       | 8/25/2005  | ND           | ND       | ND       | 67      | ND          | NS          | ND       | 108       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 3/13/2006  | ND           | ND       | ND       | 90.2    | ND          | NS          | ND       | 156       | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/22/2006  | ND           | 12       | ND       | 74      | ND          | NS          | ND       | 120       | 1.1       | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-16D                      | 8/16/2004  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 3/14/2006  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/21/2006  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| MW-17                       | 8/17/2004  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 3/13/2006  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
|                             | 6/19/2006  | ND           | ND       | ND       | ND      | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                        | ND                        | ND             |
| NCAC 2L Standard            | 3000       | 6            | 0.4      | 7.0      | 70      | 3.0         | 0.7         | 200      | NS        | 3         | 70       | 500        | 20       | 6000     | 400      | 400                       | 0.015                     |                |
| Groundwater Screening Level | 4.60E+03   | 7.60E+01     | 2.20E+01 | 3.90E+01 | NA      | NA          | 1.20E+01    | 1.50E+03 | 1.20E+00  | 1.00E+00  | 8.10E+00 | 9.80E+01   | 4.50E+03 | 4.50E+06 | 5.00E+01 | 3.50E+01                  | 1.5                       |                |

Concentrations Reported in Micrograms per Liter (µg/L)

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Table 2  
 Summary of Four Most Recent Groundwater Samples  
 Wysong & Miles Corporation  
 Greensboro, North Carolina

| Well                               | Date       | Chloroethane    | 1,1-DCA         | 1,2-DCA         | 1,1-DCE         | cis-1,2-DCE  | 1,4-Dioxane  | PCE             | 1,1,1-TCA       | 1,1,2-TCA       | TCE             | Chloroform      | o-xylene        | MTBE            | Acetone         | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Vinyl Chloride |
|------------------------------------|------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------|------------------------|----------------|
| MW-18                              | 8/17/2004  | ND              | ND              | ND              | <b>93.6</b>     | ND           | NS           | ND              | <b>12.9</b>     | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 3/13/2006  | ND              | ND              | NS              | <b>39.9</b>     | ND           | NS           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/20/2006  | ND              | ND              | NS              | <b>81</b>       | ND           | NS           | ND              | <b>9.5</b>      | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| MW-19                              | 2/28/2005  | ND              | ND              | ND              | ND              | ND           | NS           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 8/25/2005  | ND              | ND              | ND              | ND              | ND           | NS           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/20/2006  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| MW-20                              | 8/16/2004  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/25/2008  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| MW-21D                             | 3/27/2008  | ND              | <b>8.6</b>      | ND              | <b>23</b>       | <b>1.2</b>   | <b>61</b>    | ND              | <b>13</b>       | ND              | <b>5.4</b>      | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/25/2008  | ND              | <b>11</b>       | ND              | <b>43</b>       | <b>0.98J</b> | <b>70</b>    | ND              | <b>19</b>       | ND              | <b>5.5</b>      | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | <b>10</b>       | ND              | <b>32</b>       | <b>1.1</b>   | <b>62</b>    | ND              | <b>13</b>       | ND              | <b>5.3</b>      | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| MW-22                              | 3/27/2008  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/26/2008  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | ND              | ND              | ND              | ND           | ND           | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| MW-23D                             | 3/27/2008  | ND              | <b>84</b>       | ND              | <b>950</b>      | ND           | <b>2,634</b> | ND              | <b>1,600</b>    | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/26/2008  | ND              | <b>98</b>       | ND              | <b>1,400</b>    | ND           | <b>660</b>   | ND              | <b>2,000</b>    | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | <b>78</b>       | ND              | <b>920</b>      | ND           | <b>560</b>   | ND              | <b>1,400</b>    | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | <b>39</b>       | <b>1.6</b>      | <b>230</b>      | ND           | <b>97</b>    | <b>0.69</b>     | <b>220</b>      | <b>2.5</b>      | <b>1.5</b>      | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| WSW-D                              | 3/27/2008  | ND              | <b>14</b>       | <b>0.88J</b>    | <b>140</b>      | ND           | <b>208</b>   | <b>0.69J</b>    | <b>51</b>       | <b>0.51J</b>    | <b>0.52J</b>    | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/27/2008  | ND              | <b>12</b>       | <b>0.75J</b>    | <b>120</b>      | ND           | <b>94</b>    | <b>0.69J</b>    | <b>48</b>       | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 10/1/2008  | ND              | <b>9.7</b>      | <b>0.55J</b>    | <b>110</b>      | ND           | <b>153</b>   | <b>0.63J</b>    | <b>32</b>       | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| PWR-1                              | 8/11/2006  | ND              | <b>1.6</b>      | <b>0.625</b>    | <b>500</b>      | ND           | <b>39</b>    | ND              | <b>250</b>      | <b>2.4</b>      | <b>1.7J</b>     | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 12/18/2007 | ND              | ND              | ND              | <b>290</b>      | ND           | ND           | ND              | <b>140</b>      | ND              | ND              | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
|                                    | 6/25/2008  | ND              | <b>0.67J</b>    | ND              | <b>200</b>      | ND           | ND           | ND              | <b>110</b>      | ND              | <b>0.69J</b>    | ND              | ND              | ND              | ND              | ND                     | ND                     | ND             |
| <b>NCAC 2L Standard</b>            |            | <b>3000</b>     | <b>6</b>        | <b>0.4</b>      | <b>7.0</b>      | <b>70</b>    | <b>3.0</b>   | <b>0.7</b>      | <b>200</b>      | <b>NS</b>       | <b>3</b>        | <b>70</b>       | <b>500</b>      | <b>20</b>       | <b>6000</b>     | <b>400</b>             | <b>400</b>             | <b>0.015</b>   |
| <b>Groundwater Screening Level</b> |            | <b>4.60E+03</b> | <b>7.60E+01</b> | <b>2.20E+01</b> | <b>3.90E+01</b> | <b>NA</b>    | <b>NA</b>    | <b>1.20E+01</b> | <b>1.50E+03</b> | <b>1.20E+00</b> | <b>1.00E+00</b> | <b>8.10E+00</b> | <b>9.80E+01</b> | <b>4.50E+03</b> | <b>4.50E+06</b> | <b>5.00E+01</b>        | <b>3.50E+01</b>        | <b>1.5</b>     |

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 Greensboro, North Carolina

| Well                        | Date       | Chloroethane | 1,1-DCA  | 1,2-DCA  | 1,1-DCE | cis-1,2-DCE | 1,4-Dioxane | PCE      | 1,1,1-TCA | 1,1,2-TCA | TCE      | Chloroform | xylene   | MTBE     | Acetone  | 1,2,4 trimethylbenzene | 1,3,5 trimethylbenzene | Vinyl Chloride |
|-----------------------------|------------|--------------|----------|----------|---------|-------------|-------------|----------|-----------|-----------|----------|------------|----------|----------|----------|------------------------|------------------------|----------------|
| PWR-2                       | 8/11/2006  | ND           | 19       | 2.0      | 200     | ND          | 76          | ND       | 47        | 1.8       | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/17/2007 | ND           | 27       | ND       | 340     | ND          | 57          | ND       | 67        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/26/2008  | ND           | 29       | 3.0      | 310     | ND          | 120         | ND       | 69        | 2.5       | 0.66J    | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 1/10/2018  | ND           | 71       | 5.8      | 840     | ND          | 390         | 1.7      | 91        | 6         | 1.4      | 6.73       | ND       | 2.1      | ND       | ND                     | ND                     | ND             |
| PWR-3                       | 5/23/2007  | ND           | ND       | ND       | 11      | ND          | ND          | ND       | 1.4       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/17/2007 | ND           | 0.74J    | ND       | 16      | ND          | ND          | ND       | 2.0       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/25/2008  | ND           | 0.67J    | ND       | 11      | ND          | ND          | ND       | 1.5       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| PWR-4                       | 5/23/2007  | ND           | 45       | 5.0      | 590     | ND          | 200         | ND       | 95        | 4         | 1.1      | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/18/2007 | ND           | 64       | 7.4J     | 600     | ND          | 210         | ND       | 140       | 6.1J      | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/26/2008  | ND           | 54       | 6.1J     | 700     | ND          | 270         | ND       | 100       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| PWR-5                       | 5/23/2007  | ND           | 26       | ND       | 260     | ND          | 120         | 1.4      | 460       | 3.7       | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/18/2007 | ND           | 24       | ND       | 190     | ND          | 190         | ND       | 490       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/26/2008  | ND           | 22       | ND       | 150     | ND          | 100         | ND       | 440       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| PWR-6                       | 8/30/2007  | ND           | 170      | ND       | 1,100   | ND          | 780         | ND       | 1,800     | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/19/2007 | ND           | 170      | ND       | 1,100   | ND          | 510         | ND       | 2,200     | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/27/2008  | ND           | 140      | ND       | 960     | ND          | 480         | ND       | 1,800     | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| PWR-7                       | 1/9/2018   | ND           | 4.6      | 6.6J     | 130     | ND          | 28          | ND       | 22        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| PWR-8                       | 1/9/2018   | ND           | 3.9      | 1.7      | 190     | ND          | 110         | ND       | 25        | 2.8       | 1.4      | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| TW-1                        | 6/20/2006  | ND           | 7.2      | ND       | 77      | ND          | 29          | ND       | 16        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 12/18/2007 | ND           | 6.6      | 0.75J    | 77      | ND          | 29          | ND       | 14        | 0.61J     | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/25/2008  | ND           | 5.0      | 0.59J    | 52      | ND          | 41          | ND       | 9.3       | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| TW-2                        | 8/26/2005  | ND           | ND       | ND       | 45.6    | ND          | NS          | ND       | 20.8      | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 3/14/2006  | ND           | ND       | ND       | 12      | ND          | NS          | ND       | 53.8      | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/21/2006  | ND           | ND       | ND       | 40      | ND          | ND          | ND       | 16        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| TW-3                        | 8/26/2005  | ND           | ND       | ND       | 1.7     | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 3/14/2006  | ND           | ND       | ND       | 1.3     | ND          | NS          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
|                             | 6/20/2006  | ND           | ND       | ND       | 2.2     | ND          | ND          | ND       | ND        | ND        | ND       | ND         | ND       | ND       | ND       | ND                     | ND                     | ND             |
| NCAC 2L Standard            | 3000       | 6            | 0.4      | 7.0      | 70      | 3.0         | 0.7         | 200      | NS        | 3         | 70       | 500        | 20       | 6000     | 400      | 400                    | 0.015                  |                |
| Groundwater Screening Level | 4.60E+03   | 7.60E+01     | 2.20E+01 | 3.90E+01 | NA      | NA          | 1.20E+01    | 1.50E+03 | 1.20E+00  | 1.00E+00  | 8.10E+00 | 9.80E+01   | 4.50E+03 | 4.50E+06 | 5.00E+01 | 3.50E+01               | 1.5                    |                |

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| Well                               | Date       | Chloroethane | 1,1-DCA  | 1,2-DCA      | 1,1-DCE  | cis-1,2-DCE | 1,4-Dioxane | PCE      | 1,1,1-TCA | 1,1,2-TCA | TCE          | Chloroform  | xylene   | MTBE     | Acetone  | 1,2,4 trimethylbenzene | 1,3,5 trimethylbenzen | Vinyl Chloride |
|------------------------------------|------------|--------------|----------|--------------|----------|-------------|-------------|----------|-----------|-----------|--------------|-------------|----------|----------|----------|------------------------|-----------------------|----------------|
| TW-14                              | 2/21/2000  | ND           | ND       | ND           | ND       | ND          | NS          | ND       | ND        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 8/15/2000  | ND           | ND       | ND           | ND       | ND          | NS          | ND       | ND        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 8/23/2001  | ND           | ND       | ND           | ND       | ND          | NS          | ND       | ND        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| TW-15                              | 6/21/2006  | ND           | 1.8      | ND           | 120      | ND          | 46          | ND       | 55        | 2.3       | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 12/18/2007 | ND           | 2.2      | <b>0.85J</b> | 140      | ND          | 60          | ND       | 48        | 2.7       | <b>0.64J</b> | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/26/2008  | ND           | 1.9      | ND           | 95       | ND          | 59          | ND       | 34        | 2.2       | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 1/10/2018  | ND           | 5.4      | <b>0.75</b>  | 130      | ND          | 56          | ND       | 32        | 1.2       | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| TW-16                              | 6/21/2006  | ND           | 82       | 0.018        | 1,500    | ND          | 1,000E      | 2.1      | 640       | 15        | 4.6          | ND          | ND       | ND       | ND       | ND                     | ND                    | 6.1            |
|                                    | 12/18/2007 | ND           | 180      | 17           | 2,300    | ND          | 980         | ND       | 910       | 15        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/26/2008  | ND           | 170      | ND           | 2,100    | ND          | 1,000       | ND       | 810       | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 1/9/2018   | ND           | 77       | <b>5.9</b>   | 700      | ND          | 390         | 1.8      | 130       | 6.2       | 1.9          | <b>0.56</b> | ND       | 10       | ND       | ND                     | ND                    | ND             |
| RW-1                               | 6/22/2006  | ND           | 70       | 1.9          | 330      | ND          | NS          | 5.2      | 1,400     | 10        | 2.0          | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/27/2008  | ND           | 5.3      | ND           | 65       | ND          | 27          | ND       | 20        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 10/1/2008  | ND           | 5.4      | ND           | 46       | ND          | 82          | 0.54J    | 30        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| RW-2                               | 6/22/2006  | ND           | 8.3      | ND           | 86       | ND          | NS          | 4.4      | 1,300     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/27/2008  | ND           | ND       | ND           | 290      | ND          | 6.4         | ND       | 2,700     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 10/1/2008  | ND           | 12       | ND           | 300      | ND          | 1,816       | 4.1      | 1,500     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 1/10/2018  | ND           | 16       | <b>0.06%</b> | 220      | ND          | 55          | 2.6      | 3,100     | 0.74      | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| BR-1                               | 5/24/2007  | ND           | 34       | 3.6          | 390      | ND          | NS          | ND       | 77        | 3.1       | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 12/19/2007 | ND           | 44       | <b>5.0J</b>  | 550      | ND          | 150         | ND       | 110       | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/26/2008  | ND           | 38       | ND           | 500      | ND          | 190         | ND       | 79        | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| BR-2                               | 8/30/2007  | ND           | 100      | ND           | 1,300    | ND          | 670         | ND       | 2,300     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 12/19/2007 | ND           | 200      | ND           | 1,600    | ND          | 610         | ND       | 2,600     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
|                                    | 6/27/2008  | ND           | 95       | ND           | 1,000    | ND          | 320         | ND       | 2,200     | ND        | ND           | ND          | ND       | ND       | ND       | ND                     | ND                    | ND             |
| <b>NCAC 2L Standard</b>            |            | 3000         | 6        | 0.4          | 7.0      | 70          | 3.0         | 0.7      | 200       | NS        | 3            | 70          | 500      | 20       | 6000     | 400                    | 400                   | 0.015          |
| <b>Groundwater Screening Level</b> |            | 4.60E+03     | 7.60E+01 | 2.20E+01     | 3.90E+01 | NA          | NA          | 1.20E+01 | 1.50E+03  | 1.20E+00  | 1.00E+00     | 8.10E+00    | 9.80E+01 | 4.50E+03 | 4.50E+06 | 5.00E+01               | 3.50E+01              | 1.5            |

Concentrations Reported in Micrograms per Liter (µg/L)

**Bold** = Concentration Exceeds NCAC 2L Standard

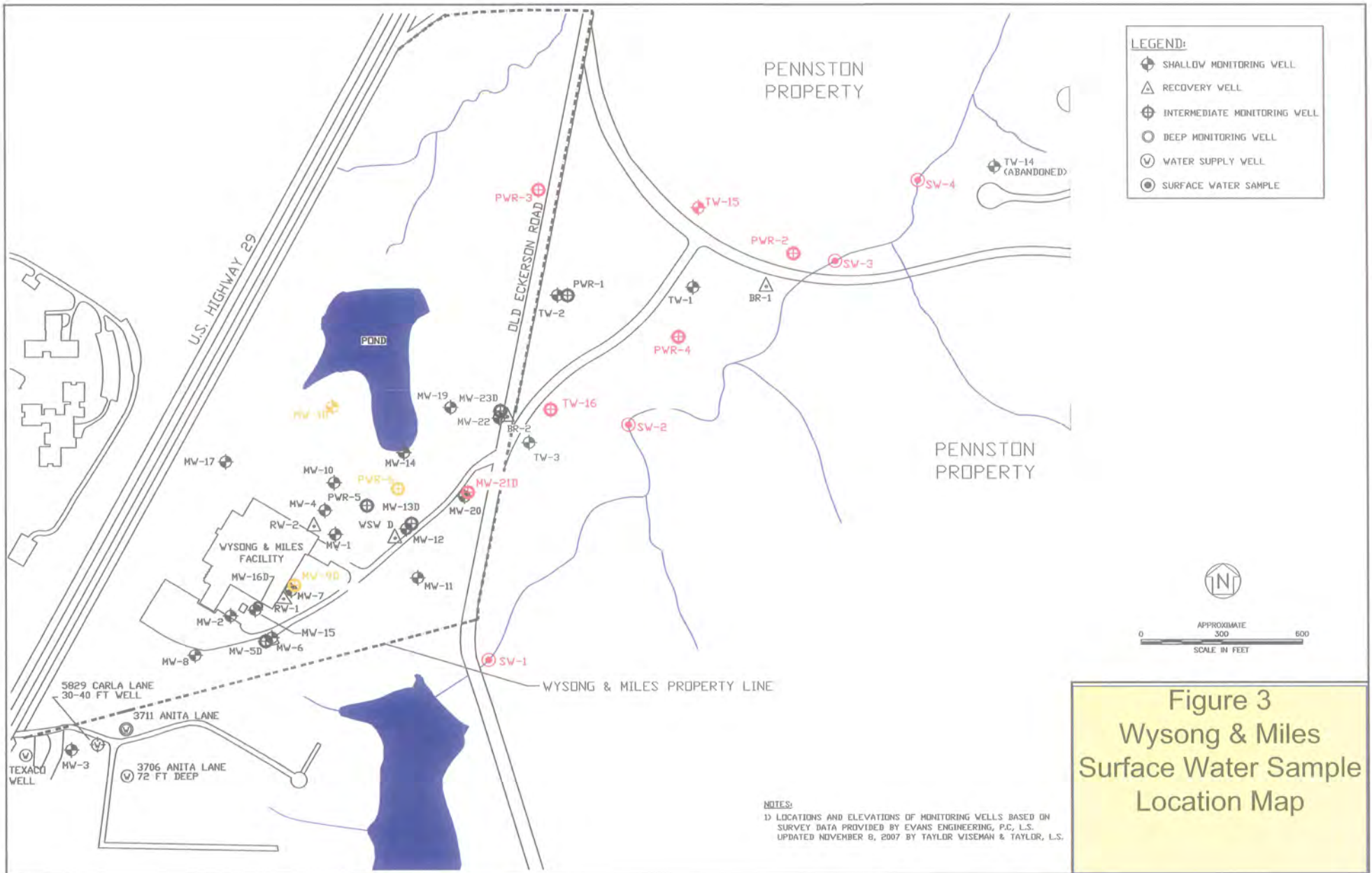
**Piedmont Ind** = 2018 sampling event

**TABLE 3**  
**Summary of Four Most Recent Surface Water Samples**  
**Wysong & Miles Corporation**  
**Greensboro, North Carolina**

| Well                    | Date       | Chloroethane | 1,1-DCA      | 1,2-DCA   | 1,1-DCE     | cis-1,2-DCE | 1,4-Dioxane | PCE        | 1,1,1-TCA  | 1,1,2-TCA | TCE       | Vinyl Chloride |
|-------------------------|------------|--------------|--------------|-----------|-------------|-------------|-------------|------------|------------|-----------|-----------|----------------|
| SW-A                    | 10/22/2007 | 1.8J         | 31           | 3.5       | 110         | ND          | 200         | ND         | 13         | ND        | 0.59J     | 18             |
| SW-1                    | 8/26/2005  | ND           | ND           | ND        | ND          | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
|                         | 3/14/2006  | ND           | ND           | ND        | ND          | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
|                         | 6/22/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 1/9/2018   | ND           | ND           | ND        | ND          | ND          | 13          | ND         | ND         | ND        | ND        | ND             |
| SW-2                    | 8/26/2005  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 3/14/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 6/22/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-3                    | 8/26/2005  | ND           | ND           | ND        | 0.83        | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
|                         | 3/14/2006  | ND           | ND           | ND        | 1.4         | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
|                         | 6/22/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-4                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 1/9/2018   | ND           | 0.7          | ND        | 7           | ND          | 9           | ND         | ND         | ND        | ND        | ND             |
| SW-5                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-6                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | ND          | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
| SW-7                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/23/2007  | ND           | ND           | ND        | ND          | ND          | NS          | ND         | ND         | ND        | ND        | ND             |
| SW-8                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-9                    | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/23/2007  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-10                   | 6/23/2006  | ND           | ND           | ND        | ND          | ND          | 11          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | ND          | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
| SW-11                   | 6/23/2006  | ND           | ND           | ND        | 1.7         | ND          | 24          | ND         | ND         | ND        | ND        | ND             |
|                         | 5/16/2007  | ND           | ND           | ND        | 2.2         | ND          | ND          | ND         | ND         | ND        | ND        | ND             |
|                         | 10/22/2007 | ND           | ND           | ND        | ND          | ND          | 24          | ND         | ND         | ND        | ND        | ND             |
| <b>NCAC 2B Standard</b> |            | <b>550</b>   | <b>20000</b> | <b>37</b> | <b>5400</b> | <b>4900</b> | <b>110</b>  | <b>3.3</b> | <b>4.4</b> | <b>16</b> | <b>30</b> | <b>2.4</b>     |

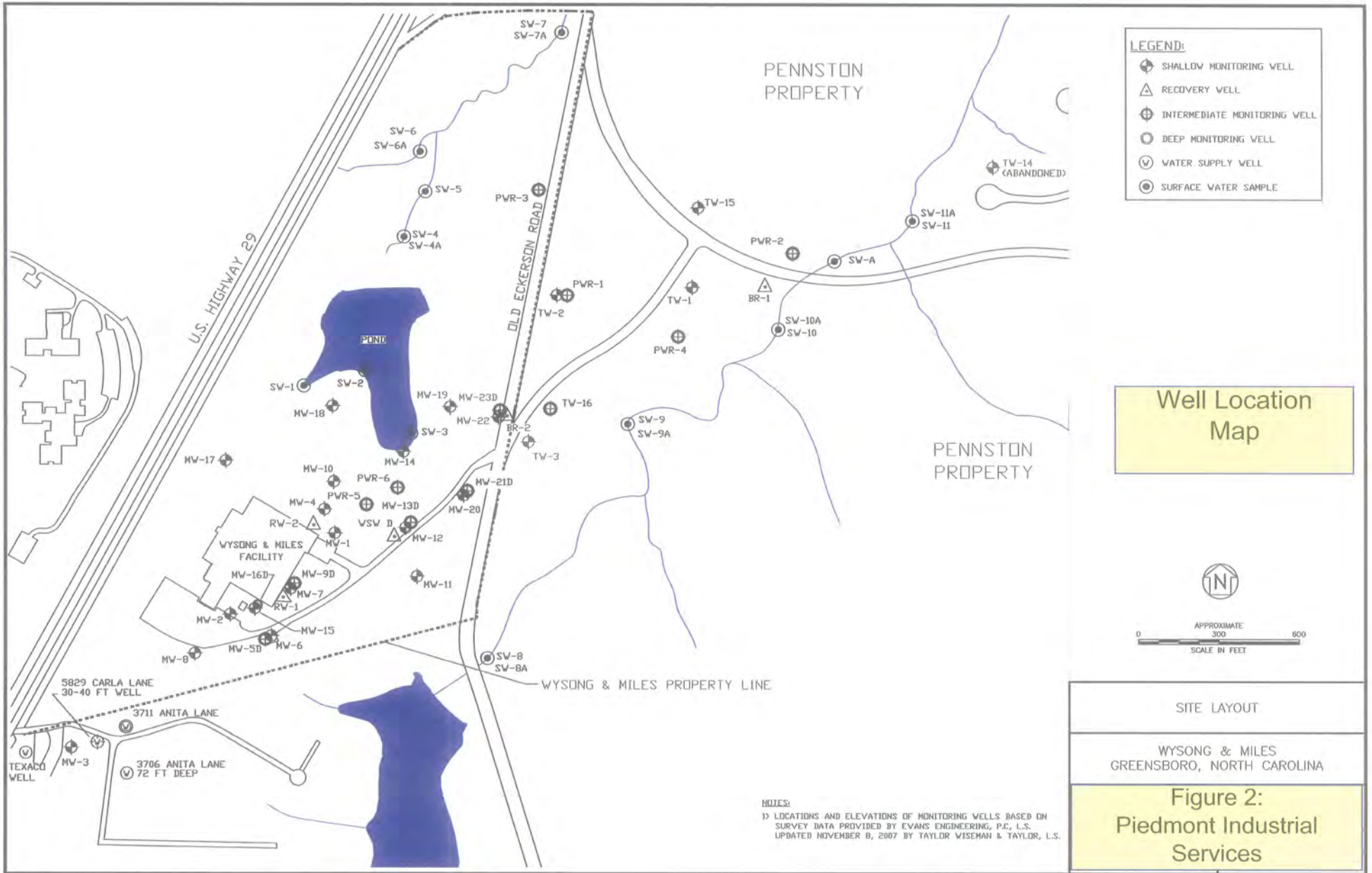
Concentrations Reported in Micrograms per Liter (µg/L)  
**Bold** = Concentration Exceeds NCAC 2L Standard  
**Piedmont Inc** = 2018 sampling event





**Figure 3**  
**Wysong & Miles**  
**Surface Water Sample**  
**Location Map**

NOTES:  
 1) LOCATIONS AND ELEVATIONS OF MONITORING WELLS BASED ON SURVEY DATA PROVIDED BY EVANS ENGINEERING, P.C., L.S. UPDATED NOVEMBER 8, 2007 BY TAYLOR WISEMAN & TAYLOR, L.S.



PENNSTON PROPERTY

PENNSTON PROPERTY

U.S. HIGHWAY 29

OLD ECKERSON ROAD

WYSONG & MILES FACILITY

WYSONG & MILES PROPERTY LINE

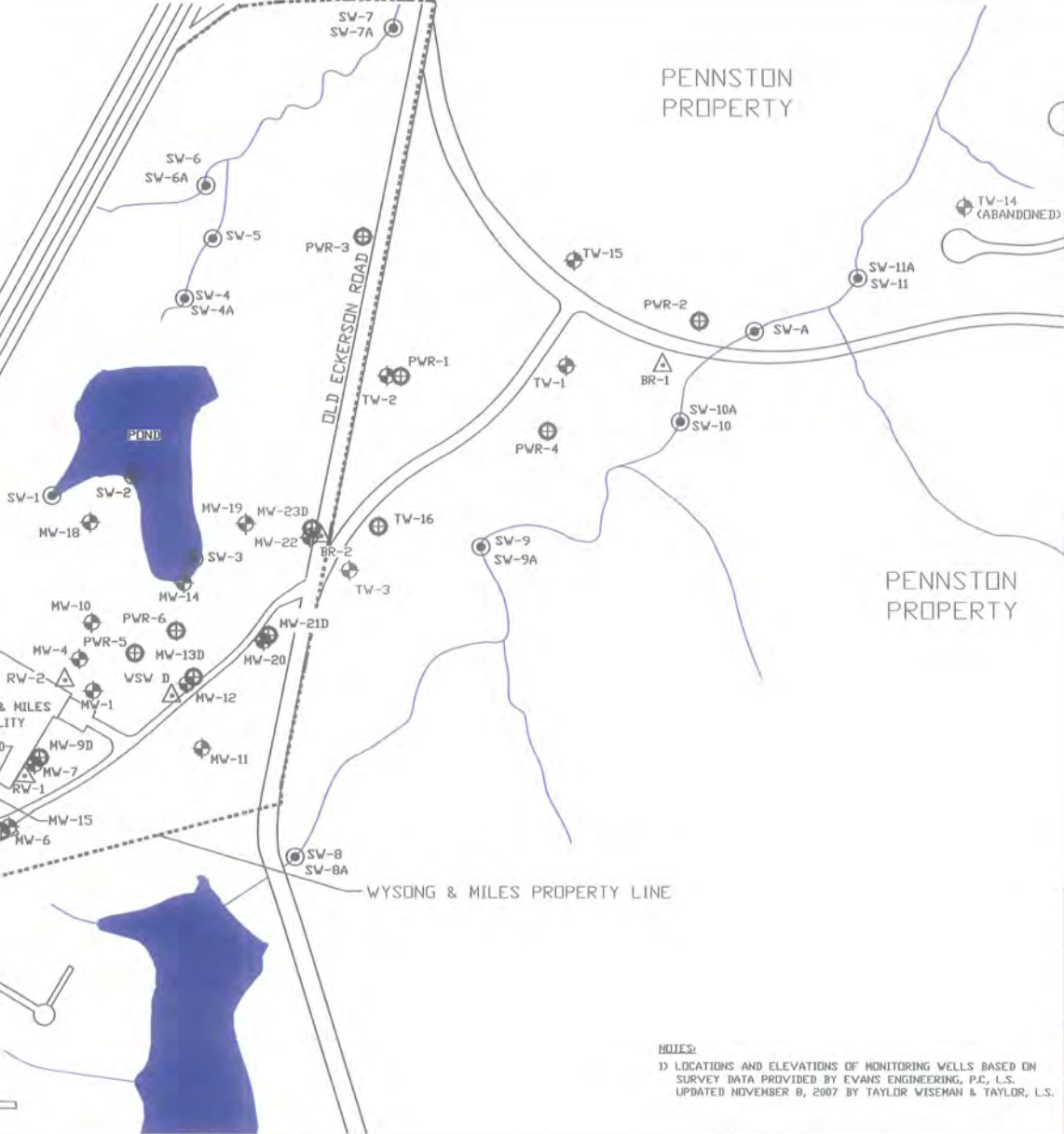
5829 CARLA LANE  
30-40 FT WELL

3711 ANITA LANE

3706 ANITA LANE  
72 FT DEEP

TEXACO WELL

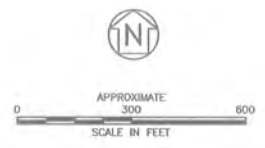
POND



**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- SURFACE WATER SAMPLE

**Well Location Map**



SITE LAYOUT

WYSONG & MILES  
GREENSBORO, NORTH CAROLINA

**Figure 2:  
Piedmont Industrial  
Services**

## **Appendix C**

### **ESP Associates, Inc. Report on Geophysical Services**



July 12, 2019

Mr. David Graham, P.G.  
Hart & Hickman, P.C.  
2923 S. Tryon Street, Suite 100  
Charlotte, North Carolina 28203

**Reference:           REPORT ON GEOPHYSICAL SERVICES FOR PARCEL 5**  
**Delta Phoenix Inc.**  
4820 US 29 North, Guilford, North Carolina  
ESP Project No. HR12.300

TIP Number:       R-4707  
WBS Number:      36599.1.2  
County:            Guilford  
Description:       SR 2526 (Summit Avenue) from SR 2641 (Bryan Park Road) to US 29-SR  
                      2970 (Ready Fork Parkway) Interchange

Dear Mr. Graham:

ESP Associates, Inc. (ESP) is pleased to present this report to Hart & Hickman, P.C. (Hart & Hickman) on the geophysical services we provided for the referenced project. This work was performed under our contractor agreement dated May 31, 2019, as authorized by the Work Authorization dated June 6, 2019, and in accordance with our cost proposal to you dated April 17, 2019. The purpose of the work was to help identify possible metallic underground storage tanks (USTs).

## **1.0    GEOPHYSICAL DATA COLLECTION**

On June 10 through 20, 2019, ESP performed geophysical studies at Parcel 5, located on the east side of US 29-SR Browns Summit, North Carolina. The work consisted of metal detection using a Geonics EM61 MK2 instrument, obtaining the approximate locations of relevant site features using a DGPS instrument, and collecting ground-penetrating radar (GPR) data over selected EM61 anomalies. In addition, our survey group provided utility locating and marked the found utilities on site.

The limits of the study area were based on NCDOT field staking and on the NCDOT MicroStation file provided by Hart & Hickman, and extended from the edge of the current roadway to the proposed right-of-way (ROW)/easement. Representative photographs of the geophysical study area are provided on Figure 1.

The EM61 data were collected over the accessible areas of the study area using a line spacing of approximately 3 feet. We used a Hemisphere XF101 differential GPS instrument (DGPS) connected to an Archer field computer to provide approximate locations of the EM61 data in real time. The DGPS instrument was also used to obtain the approximate location of site features that could affect the EM61 readings.

We compared the location of the EM61 responses to the location of site features and noted anomalies associated with buried utilities, storm drains, and metallic debris. We collected GPR data using a Sensors and Software Noggin GPR system with a 250 MHz antenna to investigate four of these anomalies.

## **2.0 DATA ANALYSIS AND PRESENTATION**

The EM61 data were gridded and contoured in Surfer to produce plan view contour maps of the early time gate response (Figures 2 and 3) and the differential response (Figures 4 and 5). The differential response is calculated by subtracting the response of the bottom coil from the response of the top coil of the EM61. Typically, the differential response diminishes the response from smaller, near-surface metallic objects, thus emphasizing the response from deeper and larger metallic objects, such as metallic USTs. The DGPS locations of observed site features were superimposed on the EM61 contour maps so that anomalies caused by site features such as metal objects on the ground surface could be recognized. Figures 2 through 5 show the EM61 data and the site features that we observed and mapped in the field with DGPS; these figures do not necessarily show all existing site features.

The EM61 early time gate response and differential response were exported from Surfer as geo-referenced images and attached to the NCDOT plan sheet in MicroStation (Figures 6 through 9). The legend for the NCDOT line types and symbols is shown on Figure 10.

## **4.0 SUMMARY AND CONCLUSIONS**

Our review of the geophysical data collected for this project does not indicate the presence of metallic USTs within the proposed ROW/easement of Parcel 5.



## 5.0 LIMITATIONS

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

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

Sincerely,

*ESP Associates, Inc.*



Edward D. Billington, PG  
Senior Geophysicist

SBM/EDB

Attachments: Figures 1 – 10



A. Photograph of geophysical area taken, looking southwest.




B. Sign within geophysical area.



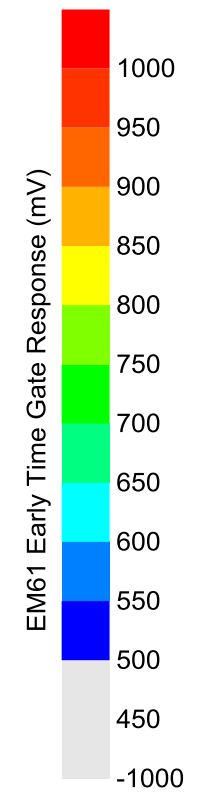
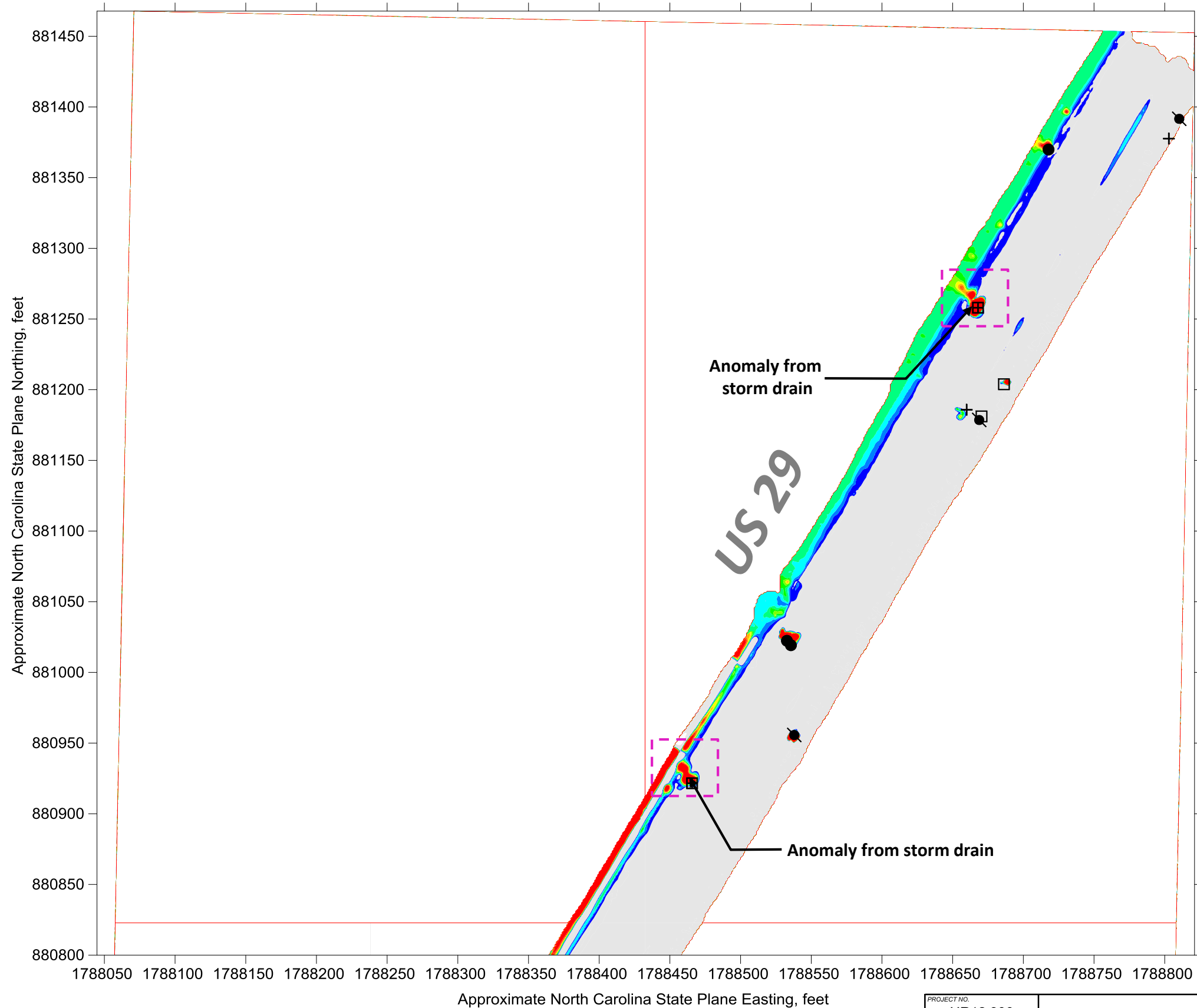
C. Photograph of geophysical area, looking northeast.



D. Photograph of portion of geophysical area, looking northeast.

|                         |   |   |
|-------------------------|---|---|
| PROJECT NO.<br>HR12.300 | <b>FIGURE 1 – PARCEL 5, DELTA PHOENIX, INC.</b><br><b>SITE PHOTOGRAPHS</b>  |  ESP Associates, Inc.<br>7011 Albert Pick Rd.,<br>Suite E<br>Greensboro, NC 27409<br>336.334.7724<br>www.espassociates.com |
| SCALE<br>N/A            |   |   |
| DATE<br>7/12/19         | <b>NCDOT PROJECT R-4707</b><br><b>SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE</b><br><b>GUILFORD COUNTY, NORTH CAROLINA</b> |   |
| BY<br>SBM/EDB           |   |   |





| EXPLANATION |  |
|-------------|--|
| ◇           | Miscellaneous metal object (pipe, debris, etc.)    |
| □           | Utility Box (water meter, electrical outlet, etc.) |
| ▣           | Storm drain  |
| ●           | Utility pole                                       |
| +           | Guy wire anchor                                    |
| ●           | Sign pole, other pole                              |
| ○           | UST Valve Cover or Fill Port                       |
| - -         | Buried utility line (marked by others)             |
| ▭           | Existing Building (per NCDOT file)                 |
| ▭           | EM61 Data Collection Areas                         |
| ▭           | GPR Data Collection Areas                          |
| ▭           | Underground Storage Tank                           |

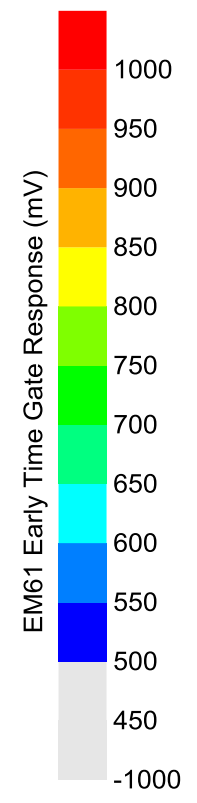
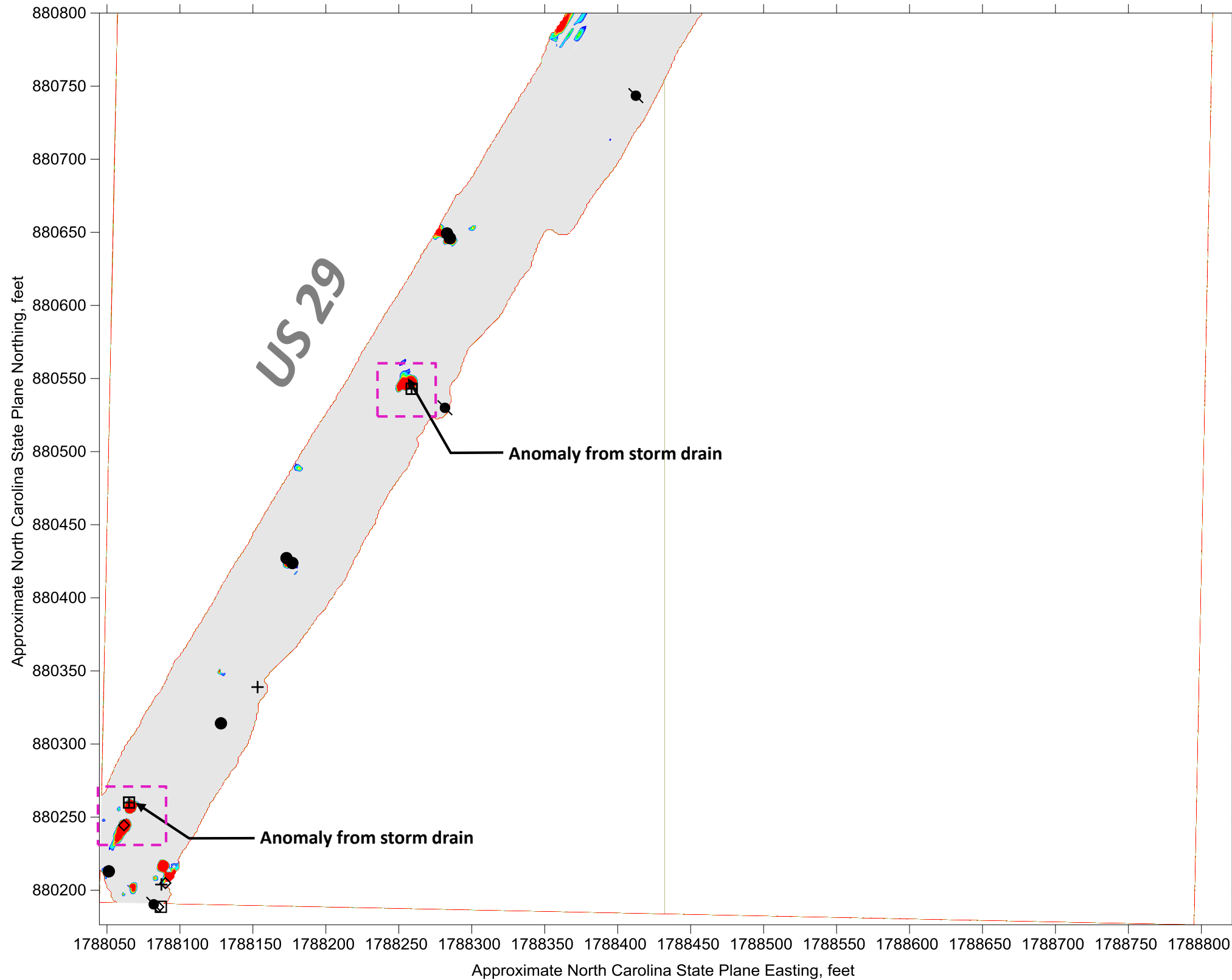
Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP make no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | AS SHOWN |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 2 – PARCEL 5, NORTH HALF**  
**EM61 EARLY TIME GATE DATA**  
**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
**GUILFORD COUNTY, NORTH CAROLINA**



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 Greensboro, NC 27409  
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| EXPLANATION |  |
|-------------|--|
| ◇           | Miscellaneous metal object (pipe, debris, etc.)    |
| □           | Utility Box (water meter, electrical outlet, etc.) |
| ▣           | Storm drain  |
| ●           | Utility pole                                       |
| +           | Guy wire anchor                                    |
| ●           | Sign pole, other pole                              |
| ○           | UST Valve Cover or Fill Port                       |
| - -         | Buried utility line (marked by others)             |
| ▭           | Existing Building (per NCDOT file)                 |
| ▭           | EM61 Data Collection Areas                         |
| ▭           | GPR Data Collection Areas                          |
| ▭           | Underground Storage Tank                           |

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

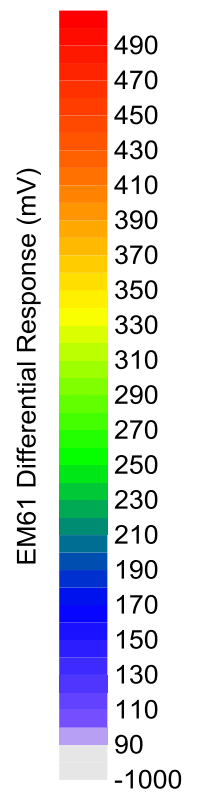
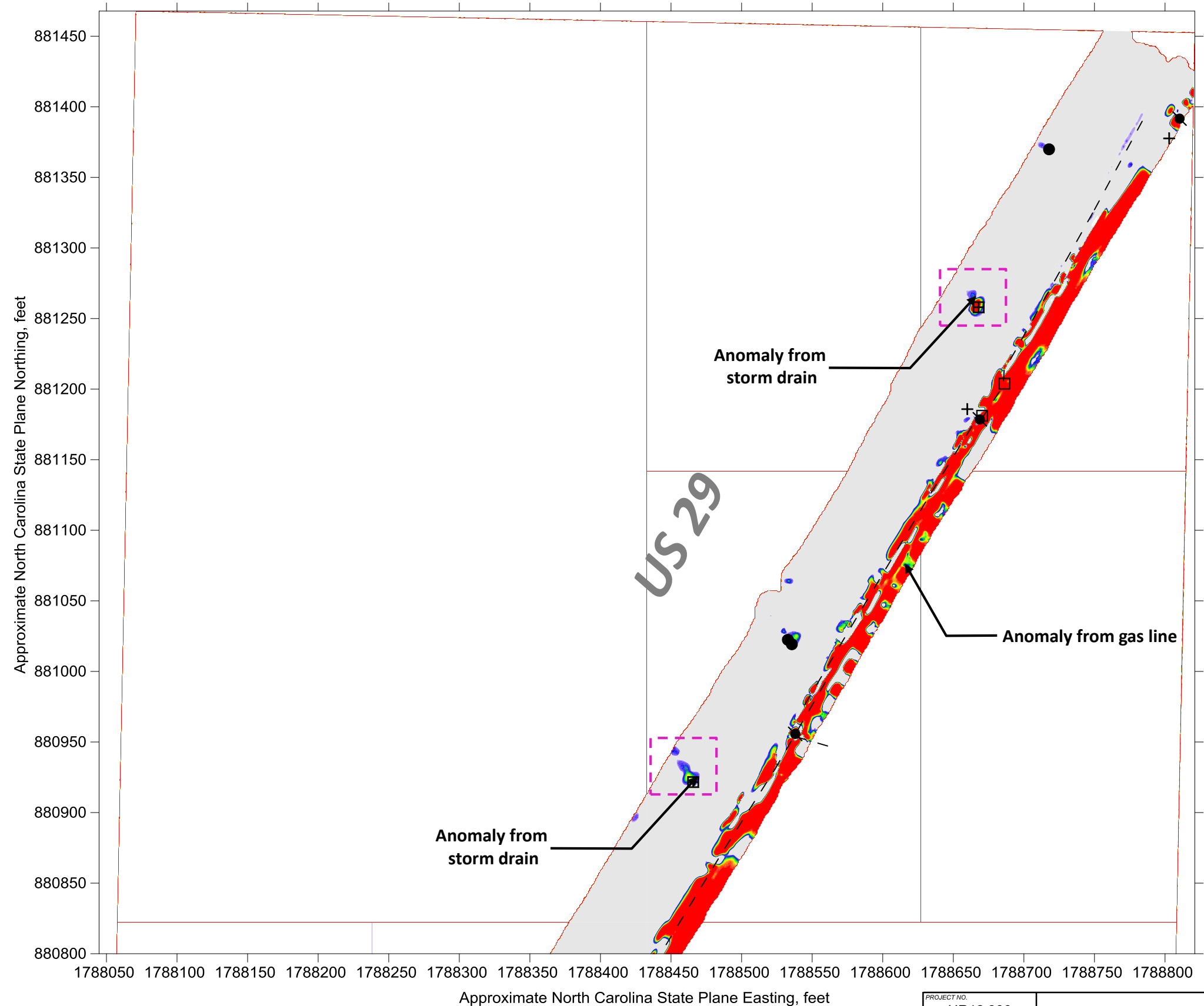
|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | AS SHOWN |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 3 – PARCEL 5, SOUTH HALF  
EM61 EARLY TIME GATE DATA**

**NCDOT PROJECT R-4707  
SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE  
GUILFORD COUNTY, NORTH CAROLINA**



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Greensboro, NC 27409  
336.334.7724  
www.espassociates.com



| EXPLANATION |  |
|-------------|--|
| ◇           | Miscellaneous metal object (pipe, debris, etc.)    |
| □           | Utility Box (water meter, electrical outlet, etc.) |
| ▣           | Storm drain  |
| ●           | Utility pole                                       |
| +           | Guy wire anchor                                    |
| ●           | Sign pole, other pole                              |
| ○           | UST Valve Cover or Fill Port                       |
| - -         | Buried utility line (marked by others)             |
| ▭           | Existing Building (per NCDOT file)                 |
| ▭           | EM61 Data Collection Areas                         |
| ▭           | GPR Data Collection Areas                          |
| ▭           | Underground Storage Tank                           |

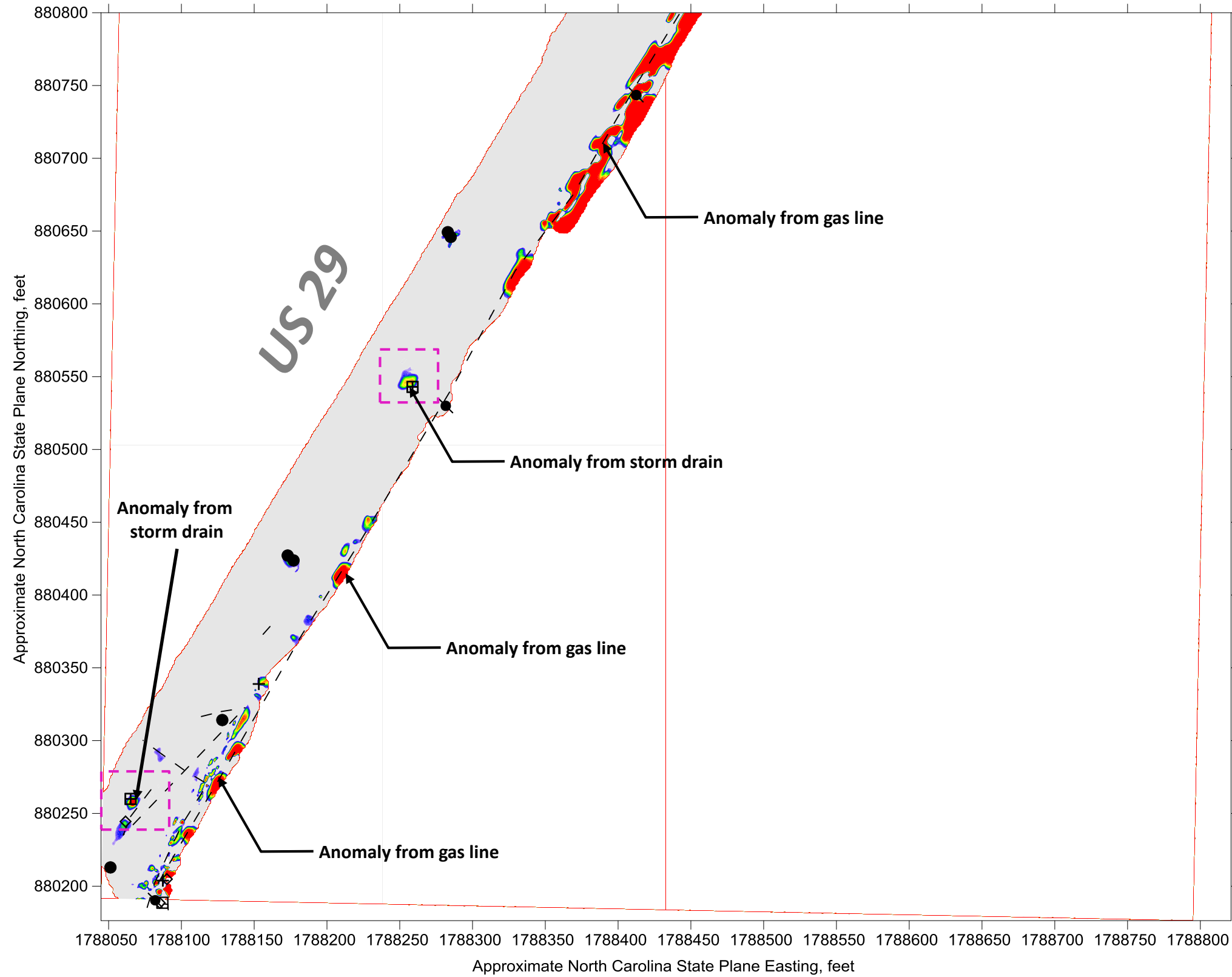
Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP make no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | AS SHOWN |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 4 – PARCEL 5, NORTH HALF**  
**EM61 DIFFERENTIAL DATA**  
**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
**GUILFORD COUNTY, NORTH CAROLINA**



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| EXPLANATION |  |
|-------------|--|
| ◇           | Miscellaneous metal object (pipe, debris, etc.)    |
| □           | Utility Box (water meter, electrical outlet, etc.) |
| ▣           | Storm drain  |
| ●           | Utility pole                                       |
| +           | Guy wire anchor                                    |
| ●           | Sign pole, other pole                              |
| ○           | UST Valve Cover or Fill Port                       |
| - -         | Buried utility line (marked by others)             |
| ▭           | Existing Building (per NCDOT file)                 |
| ▭           | EM61 Data Collection Areas                         |
| ▭           | GPR Data Collection Areas                          |
| ▭           | Underground Storage Tank                           |

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

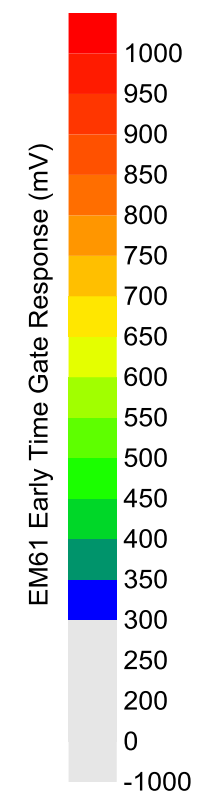
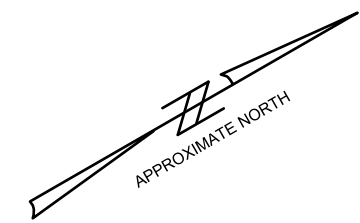
|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | AS SHOWN |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 5 – PARCEL 5, SOUTH HALF**  
**EM61 DIFFERENTIAL DATA**  
**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
**GUILFORD COUNTY, NORTH CAROLINA**



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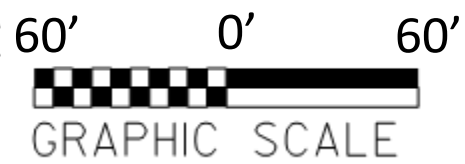




See Figure 10 for explanation of symbols and line types

List of NCDOT reference files

- R4707\_Geo\_Env.dgn
- R4707\_FS\_NCDOT.dgn
- R4707\_hyd\_drn.dgn
- R4707\_Rdy\_dsn.dgn
- R4707\_Rdy\_row.dgn
- R4707\_Rdy\_ss.dgn



|             |          |
|-------------|----------|
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| SCALE       | 1" = 60' |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

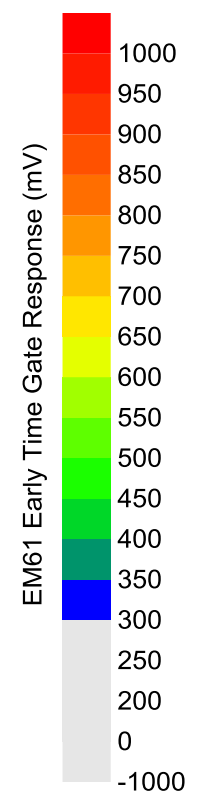
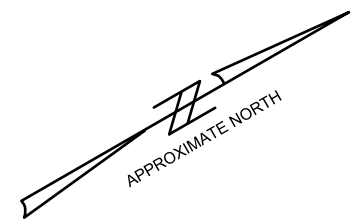
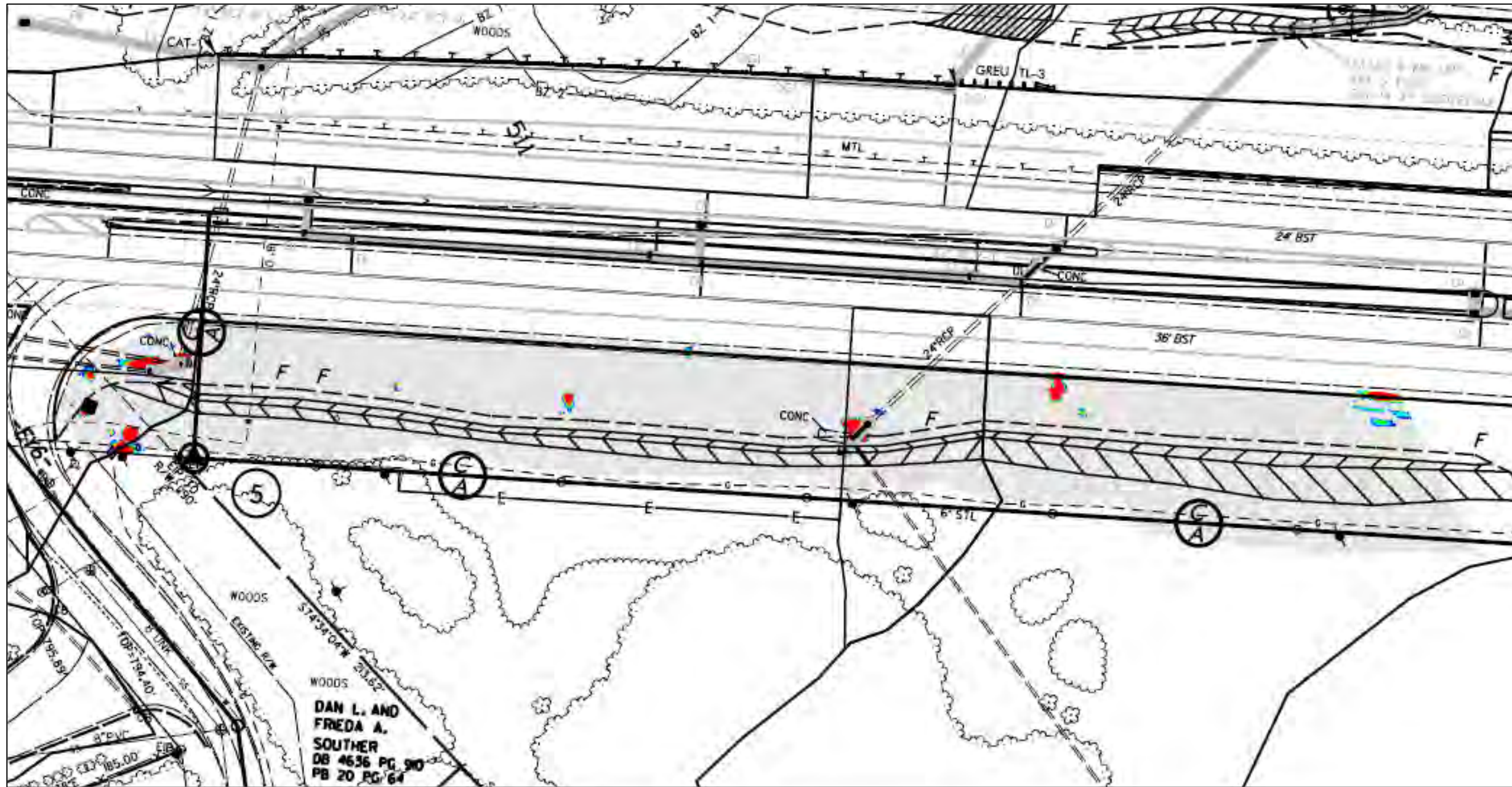
**FIGURE 6 – PARCEL 5, NORTH HALF**  
**EM61 EARLY TIME GATE DATA ON PLAN SHEET**

**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
**GUILFORD COUNTY, NORTH CAROLINA**



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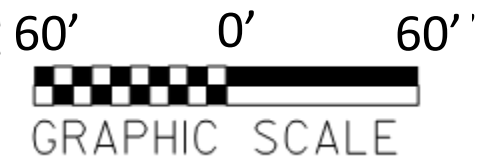




See Figure 10 for explanation of symbols and line types

List of NCDOT reference files

- R4707\_Geo\_Env.dgn
- R4707\_FS\_NCDOT.dgn
- R4707\_hyd\_drn.dgn
- R4707\_Rdy\_dsn.dgn
- R4707\_Rdy\_row.dgn
- R4707\_Rdy\_ss.dgn



|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | 1" = 60' |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

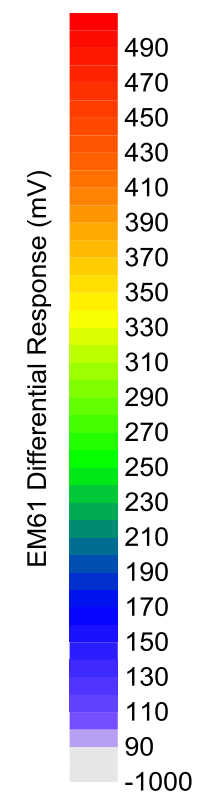
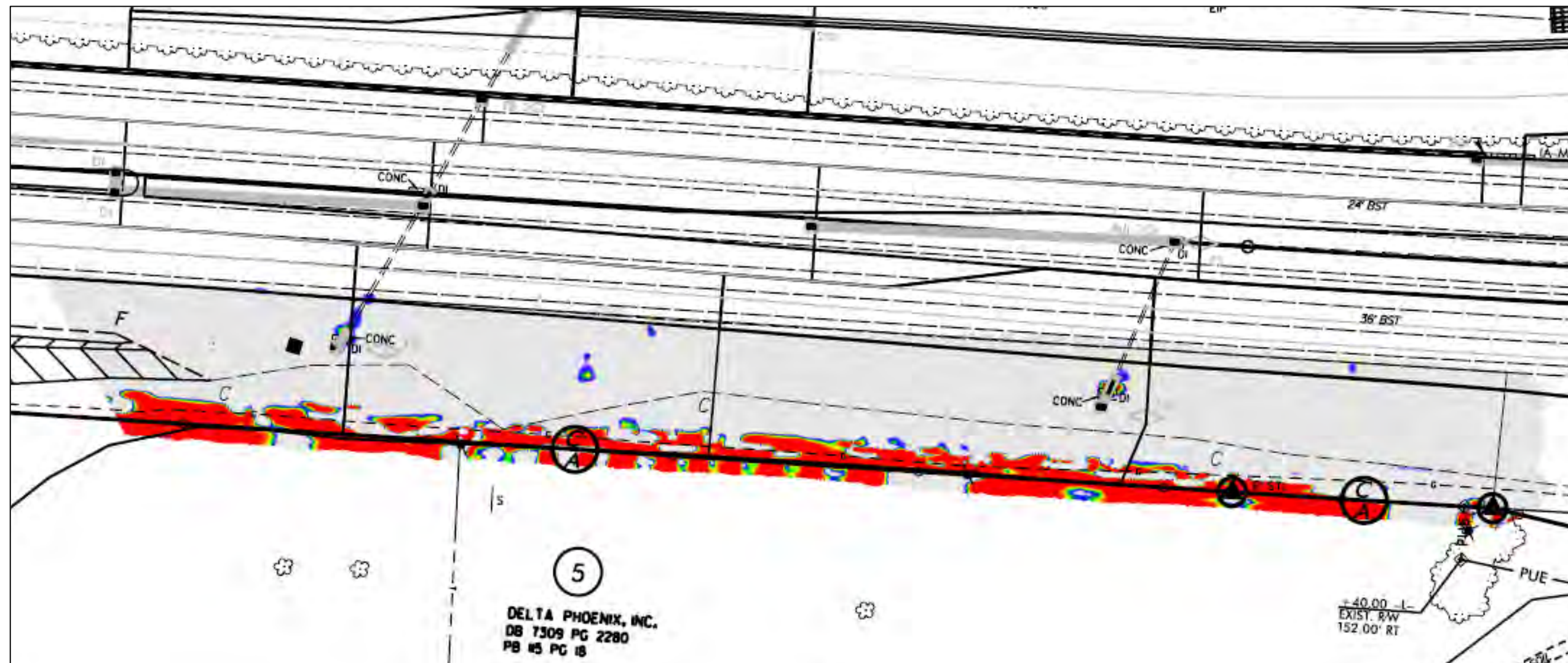
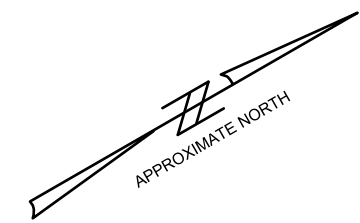
**FIGURE 7 – PARCEL 5, SOUTH HALF**  
**EM61 EARLY TIME GATE DATA ON PLAN SHEET**

**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
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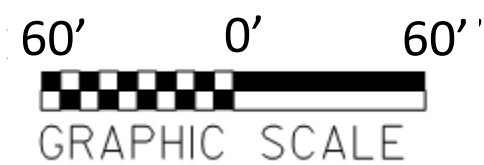




See Figure 10 for explanation of symbols and line types

List of NCDOT reference files

- R4707\_Geo\_Env.dgn
- R4707\_FS\_NCDOT.dgn
- R4707\_hyd\_drn.dgn
- R4707\_Rdy\_dsn.dgn
- R4707\_Rdy\_row.dgn
- R4707\_Rdy\_ss.dgn



|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | 1" = 60' |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

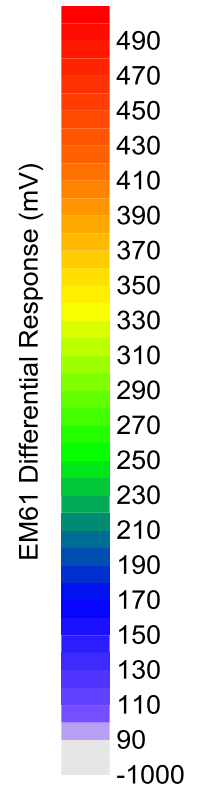
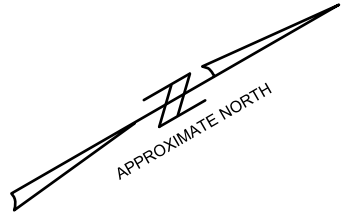
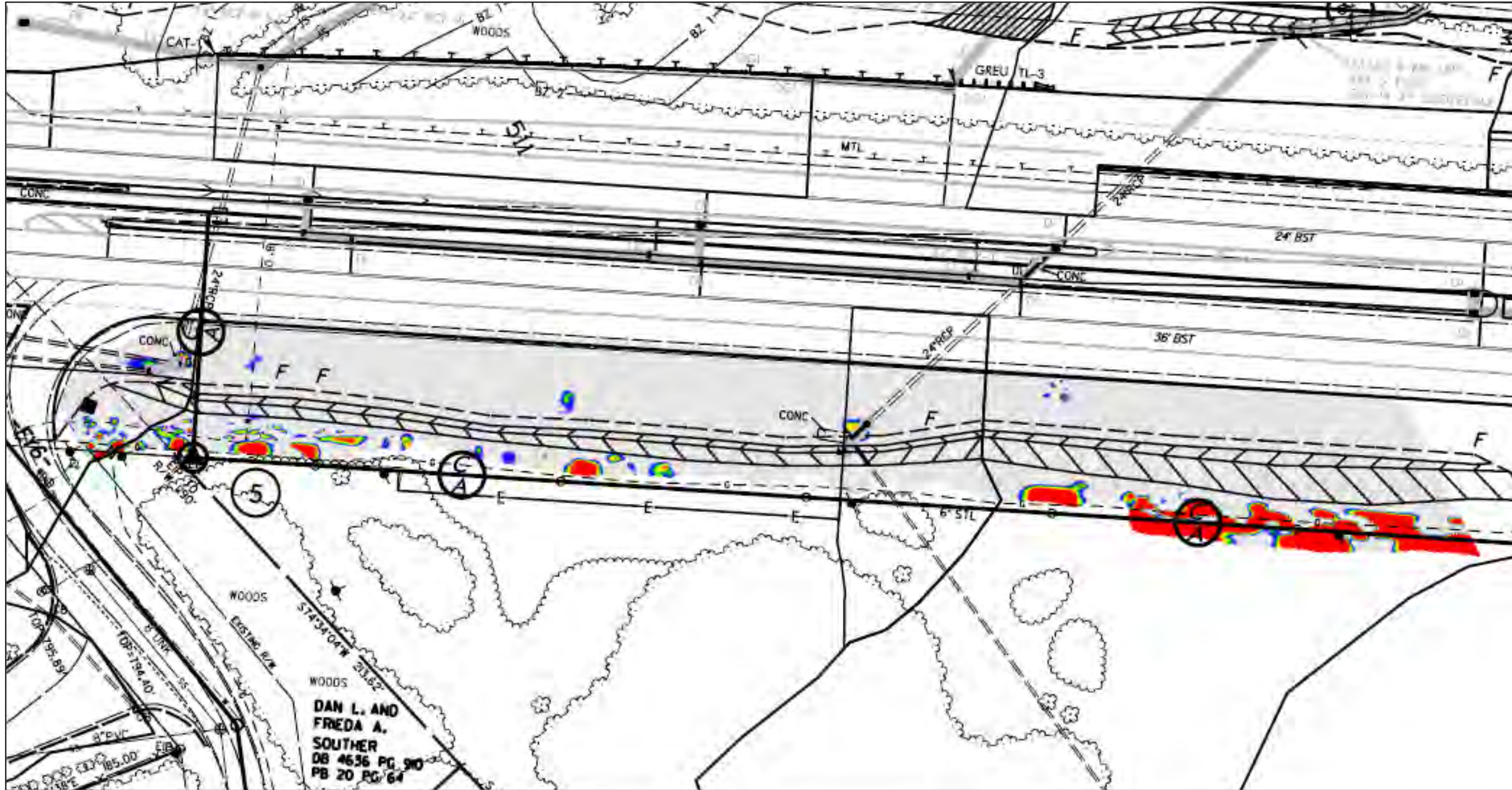
**FIGURE 8 – PARCEL 5, NORTH HALF**  
**EM61 DIFFERENTIAL DATA ON PLAN SHEET**

**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
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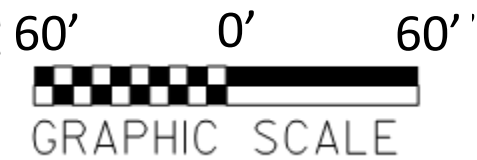




See Figure 10 for explanation of symbols and line types

List of NCDOT reference files

- R4707\_Geo\_Env.dgn
- R4707\_FS\_NCDOT.dgn
- R4707\_hyd\_drn.dgn
- R4707\_Rdy\_dsn.dgn
- R4707\_Rdy\_row.dgn
- R4707\_Rdy\_ss.dgn



|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | 1" = 60' |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 9 – PARCEL 5, SOUTH HALF  
EM61 DIFFERENTIAL DATA ON PLAN SHEET**

**NCDOT PROJECT R-4707  
SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE  
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# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

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

## BOUNDARIES AND PROPERTY:

|                                       |         |
|---------------------------------------|---------|
| State Line                            | _____   |
| County Line                           | _____   |
| Township Line                         | _____   |
| City Line                             | _____   |
| Reservation Line                      | _____   |
| Property Line                         | _____   |
| Existing Iron Pin                     | ○       |
| Property Corner                       | ⊠       |
| Property Monument                     | ⊠       |
| Parcel/Sequence Number                | ⊕       |
| Existing Fence Line                   | -x-x-x- |
| Proposed Woven Wire Fence             | -o-o-o- |
| Proposed Chain Link Fence             | -s-s-s- |
| Proposed Barbed Wire Fence            | -d-d-d- |
| Existing Wetland Boundary             | -w-w-w- |
| Proposed Wetland Boundary             | -w-w-w- |
| Existing Endangered Animal Boundary   | -a-a-a- |
| Existing Endangered Plant Boundary    | -p-p-p- |
| Existing Historic Property Boundary   | -h-h-h- |
| Known Contamination Area: Soil        | -s-s-s- |
| Potential Contamination Area: Soil    | -s-s-s- |
| Known Contamination Area: Water       | -w-w-w- |
| Potential Contamination Area: Water   | -w-w-w- |
| Contaminated Site: Known or Potential | -s-s-   |

## BUILDINGS AND OTHER CULTURE:

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

## HYDROLOGY:

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

## RAILROADS:

|                    |       |
|--------------------|-------|
| Standard Gauge     | _____ |
| RR Signal Milepost | ○     |
| Switch             | ⊠     |
| RR Abandoned       | _____ |
| RR Dismantled      | _____ |

## RIGHT OF WAY:

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

## ROADS AND RELATED FEATURES:

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

## VEGETATION:

|              |       |
|--------------|-------|
| Single Tree  | ○     |
| Single Shrub | ○     |
| Hedge        | _____ |
| Woods Line   | _____ |

|          |       |
|----------|-------|
| Orchard  | _____ |
| Vineyard | _____ |

## EXISTING STRUCTURES:

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

## UTILITIES:

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

## TELEPHONE:

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

## WATER:

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

## TV:

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

## GAS:

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

## SANITARY SEWER:

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

## MISCELLANEOUS:

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

|             |          |
|-------------|----------|
| PROJECT NO. | HR12.300 |
| SCALE       | N/A      |
| DATE        | 7/12/19  |
| BY          | SBM/EDB  |

**FIGURE 10- PARCEL 5, DELTA PHOENIX, INC.**  
**LEGEND FOR PLAN SHEET FIGURES**  
**NCDOT PROJECT R-4707**  
**SR 2526 FROM SR 2641 TO US 29-SR 2970 INTERCHANGE**  
**GUILFORD COUNTY, NORTH CAROLINA**



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**Appendix D**  
**Soil Boring Logs**



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-1**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') Lean CLAY (CL); trace fine sand, some silt, mostly clay, medium plasticity, soft, moist, light brown - red            | 4.3       |            | 0          |
|            |           |             |                   |             |      |             |               | (2') As Above: orange - tan  | 1.6       |            |            |
|            |           |             |                   |             |      |             |               | (4') Lean CLAY (CL); trace fine gravel, some silt, mostly clay, medium plasticity, soft, wet, tan - orange, black mottling | 2.7       |            |            |
| 5          |           |             |                   |             |      |             |               | (5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, soft, wet, orange, black mottling                          | 2.2       |            | 5          |
|            |           |             |                   |             |      |             |               | (9') As Above: saturated   | 1.4       |            |            |
| 10         |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.





Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-2**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') Lean CLAY (CL); trace fine sand, some silt, mostly clay, medium plasticity, soft, moist, brown - black, micaceous | 3.1       | 5-2        | 0          |
|            |           |             |                   |             |      |             |               | (3') trace relic structures  | 2.3       |            |            |
|            |           |             |                   |             |      |             |               | (4') Sandy SILT (ML); little clay, soft, wet, brown, black mottling  | 1.6       |            |            |
| 5          |           |             |                   |             |      |             |               | (8') Sandy SILT (ML); medium stiff, moist, brown, trace black mottling, trace relict structures                        | 1.8       |            | 5          |
|            |           |             |                   |             |      |             |               | (10') Sandy SILT (ML); stiff, moist, brown - black   | 2.1       |            |            |
| 10         |           |             |                   |             |      |             |               | (12') Boring terminated  | 2.0       |            | 10         |
| 15         |           |             |                   |             |      |             |               |  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-3**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') SILT (ML); mostly silt, some clay, soft, moist, orange - brown, trace black mottling  | 3.0       | 5-3        | 0          |
|            |           |             |                   |             |      |             |               |  | 2.1       |            |            |
|            |           |             |                   |             |      |             |               |  | 3.3       |            |            |
| 5          |           |             |                   |             |      |             |               | (7') As Above: wet   | 3.2       |            | 5          |
|            |           |             |                   |             |      |             |               | (8') SILT (ML); trace fine sand, mostly silt, some clay, medium stiff, wet, orange - brown | 3.2       |            |            |
| 10         |           |             |                   |             |      |             |               | (10') SILT with sand (ML); trace clay, medium stiff, moist, brown, black mottling          | 3.2       |            | 10         |
|            |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            |            |
| 15         |           |             |                   |             |      |             |               |  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-4**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   | GR          |      |             |               | (0') Sandy SILT (ML); trace fine gravel, trace clay, soft, moist, orange - red - light brown | 551.8     | 5-4        | 0          |
|            |           |             |                   |             |      |             |               | (2') SILT (ML); trace fine sand, mostly silt, some clay, soft, moist, orange - red           | 5.6       |            |            |
|            |           |             |                   |             |      |             |               | (7') Silty SAND (SM); medium dense, moist, brown - orange                                    | 2.4       |            |            |
| 5          |           |             |                   | DP          |      |             |               | (8') Silty SAND (SM); trace clay, loose, wet, brown - orange, black mottling                 | 1.8       |            | 5          |
|            |           |             |                   |             |      |             |               | (9') Silty SAND (SM); dense, moist, red - brown  | 3.3       |            |            |
| 10         |           |             |                   |             |      |             |               | (12') Boring terminated  | 2.9       |            | 10         |
| 15         |           |             |                   |             |      |             |               |  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-5**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') Sandy SILT (ML); soft, moist, red - brown   | 3.6       | 5-5        | 0          |
|            |           |             |                   |             |      |             |               | (3') Silty SAND (SM); loose, moist, red - brown  | 3.0       |            |            |
| 5          |           |             |                   |             |      |             |               | (5') Sandy SILT (ML); soft, moist, red - orange - white<br>(5.5') Sandy SILT (ML); medium stiff, moist, red - orange   | 3.3       |            | 5          |
|            |           |             |                   |             |      |             |               | (7') Sandy SILT (ML); few fine gravel, medium stiff, moist, light tan - orange<br>(7.5') Silty SAND (SM); medium dense, moist, tan - brown, trace black mottling | 2.3       |            |            |
| 10         |           |             |                   |             |      |             |               | (9') Silty SAND (SM); medium dense, moist, red - orange - brown<br>(10') As Above: few clay  | 2.4       |            | 10         |
| 15         |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-6**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION  | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|---|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |   | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') SILT (ML); trace fine sand, mostly silt, some clay, soft, moist, red - orange - brown                                  | 2.3       | 5-6        | 0          |
|            |           |             |                   |             |      |             |               | (3') SILT (ML); mostly silt, some clay, medium stiff, moist, orange - red, two large quartz fragments, trace black mottling |           |            |            |
|            |           |             |                   |             |      |             |               | (4') SILT (ML); few fine gravel, mostly silt, some clay, medium stiff, moist, orange - red - brown                          | 1.2       |            |            |
| 5          |           |             |                   |             |      |             |               | (5') SILT (ML); mostly silt, little clay, medium stiff, moist, brown - orange   | 1.6       |            | 5          |
|            |           |             |                   |             |      |             |               | (7') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, orange - white                         |           |            |            |
|            |           |             |                   |             |      |             |               | (7.25') Silty SAND (SM); few fine gravel, medium dense, moist, brown - black  | 1.8       |            |            |
| 10         |           |             |                   |             |      |             |               | (9') Sandy SILT (ML); soft, moist, light tan  | 1.7       |            | 10         |
| 15         |           |             |                   |             |      |             |               | (12') Boring terminated   |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: NC DOT  
 Project: ROW-603  
 Address: Parcel 5, Greensboro, NC

**BORING LOG**  
 Boring No. 5-7  
 Page: 1 of 1

Drilling Start Date: 6/25/2019  
 Drilling End Date: 6/25/2019  
 Drilling Company: SAEDACCO  
 Drilling Method: Direct Push  
 Drilling Equipment: Geoprobe 7822 DT  
 Driller: Stefan Smith  
 Logged By: AFM

Boring Depth (ft): 12.0  
 Boring Diameter (in): 2.50  
 Sampling Method(s): Direct Push, Grab  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') Lean CLAY (CL); some silt, mostly clay, medium plasticity, soft, moist, brown   | 4.5       | 5-7        | 0          |
|            |           |             |                   |             |      |             |               | (2') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, gray - tan                                  | 4.0       |            |            |
|            |           |             |                   |             |      |             |               | (5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, light brown, few coarse gravel at top 0.25' | 5.2       |            | 5          |
|            |           |             |                   |             |      |             |               | (7') Silty SAND (SM); medium dense, moist, brown   | 4.6       |            |            |
|            |           |             |                   |             |      |             |               | (8.5') Well-graded SAND (SW); mostly fine-medium grained sand, few silt, trace clay, dense, moist, tan - white                   | 4.8       |            | 10         |
|            |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.





Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-8**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') Sandy SILT (ML); medium stiff, moist, brown   | 2.1       | 5-8        | 0          |
|            |           |             |                   |             |      |             |               | (1') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, brown - orange  | 2.6       |            | 5          |
| 5          |           |             |                   |             |      |             |               | (5') SILT (ML); mostly silt, some clay, medium stiff, moist, brown, extremely micaceous, in-tact mica books present<br>(5.5') SILT (ML); mostly silt, little clay, medium stiff, moist, tan - orange         | 2.8       |            | 10         |
|            |           |             |                   |             |      |             |               | (7') SILT (ML); stiff, moist, brown - black, extremely micaceous, in-tact mica books<br>(7.5') Silty SAND (SM); medium dense, moist, tan - white   | 3.1       |            |            |
| 10         |           |             |                   |             |      |             |               | (9') Well-graded SAND with silt (SW-SM); mostly fine grained sand, few silt, medium dense, moist, white- tan<br>(10') SILT (ML); medium stiff, moist, black - brown, extremely micaceous, in-tact mica books | 3.7       |            | 15         |
| 15         |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            |            |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-9**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') SILT with sand (ML); few clay, medium stiff, moist, orange - brown                                  | 3.3       | 5-9        | 0          |
|            |           |             |                   |             |      |             |               |  | 2.8       |            |            |
|            |           |             |                   |             |      |             |               |  | 3.4       |            |            |
| 5          |           |             |                   |             |      |             |               | (7') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, orange - tan - gray | 4.1       |            | 5          |
|            |           |             |                   |             |      |             |               |  | 3.8       |            |            |
| 10         |           |             |                   |             |      |             |               | (10') Silty SAND (SM); medium dense, moist, tan - brown, weathered mica books                            | 3.6       |            | 10         |
|            |           |             |                   |             |      |             |               |  |           |            |            |
|            |           |             |                   |             |      |             |               | (11.5') Lean CLAY (CL); few silt, medium plasticity, stiff, moist, white - tan                           |           |            |            |
|            |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            |            |
| 15         |           |             |                   |             |      |             |               |  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-10**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') SILT (ML); mostly silt, some clay, soft, moist, brown - orange                                  | 3.7       |            | 0          |
|            |           |             |                   |             |      |             |               |  |           |            | 5-10       |
|            |           |             |                   |             |      |             |               | (4') SILT (ML); mostly silt, some clay, soft, moist, orange  | 3.7       |            |            |
|            |           |             |                   |             |      |             |               |  |           |            | 3.9        |
| 5          |           |             |                   |             |      |             |               |  |           |            | 5          |
|            |           |             |                   |             |      |             |               |  |           |            | 5.8        |
|            |           |             |                   |             |      |             |               | (8.5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, moist, gray - orange |           |            | 5.4        |
|            |           |             |                   |             |      |             |               | (9') Sandy SILT (ML); few clay, soft, moist, tan   |           |            | 5.0        |
| 10         |           |             |                   |             |      |             |               |  |           |            | 10         |
|            |           |             |                   |             |      |             |               |  |           |            |            |
|            |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            |            |
| 15         |           |             |                   |             |      |             |               |  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.



Client: **NC DOT**  
 Project: **ROW-603**  
 Address: **Parcel 5, Greensboro, NC**

**BORING LOG**  
 Boring No. **5-11**  
 Page: **1 of 1**

Drilling Start Date: **6/25/2019**  
 Drilling End Date: **6/25/2019**  
 Drilling Company: **SAEDACCO**  
 Drilling Method: **Direct Push**  
 Drilling Equipment: **Geoprobe 7822 DT**  
 Driller: **Stefan Smith**  
 Logged By: **AFM**

Boring Depth (ft): **12.0**  
 Boring Diameter (in): **2.50**  
 Sampling Method(s): **Direct Push, Grab**  
 DTW During Drilling (ft):  
 DTW After Drilling (ft):  
 Ground Surface Elev. (ft):  
 Location (X,Y):

| DEPTH (ft) | LITHOLOGY | WATER LEVEL | BORING COMPLETION | COLLECT     |      |             |               | SOIL/ROCK VISUAL DESCRIPTION   | MEASURE   |            | DEPTH (ft) |
|------------|-----------|-------------|-------------------|-------------|------|-------------|---------------|--|-----------|------------|------------|
|            |           |             |                   | Sample Type | Time | Blow Counts | Recovery (ft) |  | PID (ppm) | Lab Sample |            |
| 0          |           |             |                   |             |      |             |               | (0') SILT (ML); mostly silt, some clay, soft, moist, red - orange  | 3.2       | 5-11       | 0          |
|            |           |             |                   |             |      |             |               | (2') Sandy SILT (ML); soft, moist, red - orange  | 3.3       |            |            |
|            |           |             |                   |             |      |             |               | (5') Sandy SILT (ML); medium stiff, moist, black - brown - orange  | 4.2       |            | 5          |
|            |           |             |                   |             |      |             |               | (6') As Above: wet   | 4.9       |            |            |
|            |           |             |                   |             |      |             |               | (9.25') Sandy SILT (ML); medium stiff, moist, brown - orange   | 4.4       |            |            |
|            |           |             |                   |             |      |             |               | (9.75') Silty SAND (SM); medium dense, moist, tan - gray   | 3.8       |            | 10         |
|            |           |             |                   |             |      |             |               | (10') Well-graded SAND with gravel (SW); mostly fine-medium grained sand, little fine gravel, dense, moist, gray |           |            |            |
|            |           |             |                   |             |      |             |               | (12') Boring terminated  |           |            | 15         |

NOTES: Hole precleared to 5.0' by SAEDACCO using hand auger.

**Appendix E**  
**Laboratory Analytical Reports**





### Hydrocarbon Analysis Results

**Client:** HART HICKMAN  
**Address:** 2923 S TRYON ST SUITE 100  
 CHARLOTTE NC 28203

**Samples taken** Tuesday, June 25, 2019  
**Samples extracted** Tuesday, June 25, 2019  
**Samples analysed** Thursday, June 27, 2019

**Contact:** DAVID GRAHAM

**Operator** JENN RYAN

**Project:** ROW - 603

|                             |           |               |                |                |                 |                |                           |             |        |         | U04049 |         |                            |  |  |  |  |  |  |  |  |  |  |    |  |         |
|-----------------------------|-----------|---------------|----------------|----------------|-----------------|----------------|---------------------------|-------------|--------|---------|--------|---------|----------------------------|--|--|--|--|--|--|--|--|--|--|----|--|---------|
| Matrix                      | Sample ID | Dilution used | BTEX (C6 - C9) | GRO (C5 - C10) | DRO (C10 - C35) | TPH (C5 - C35) | Total Aromatics (C10-C35) | 16 EPA PAHs | BaP    | Ratios  |        |         | HC Fingerprint Match       |  |  |  |  |  |  |  |  |  |  |    |  |         |
|                             |           |               |                |                |                 |                |                           |             |        | % light | % mid  | % heavy |                            |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-1       | 14.7          | <0.37          | 0.72           | <0.37           | 0.72           | 0.28                      | <0.12       | <0.015 | 90.7    | 4.2    | 5.1     | V.Deg.PHC 74.9%,(FCM)      |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-2       | 12.8          | <0.32          | 1.1            | <0.32           | 1.1            | 0.22                      | <0.1        | <0.013 | 94.3    | 3.3    | 2.4     | V.Deg.PHC 75.6%,(FCM)      |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-3       | 11.2          | <0.28          | <0.28          | 0.28            | 0.28           | 0.21                      | <0.09       | <0.011 | 0       | 49.3   | 50.7    | V.Deg.PHC 90.1%,(FCM),(BO) |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-4       | 29.5          | <0.74          | <0.74          | 1.3             | 1.3            | 0.67                      | <0.24       | <0.03  | 0       | 68     | 32      | Deg.PHC 80.8%,(FCM)        |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-5       | 27.1          | <0.68          | 2.8            | 1.7             | 4.5            | 0.88                      | <0.22       | <0.027 | 85.9    | 9.2    | 4.9     | Deg.PHC 80.6%,(FCM)        |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-6       | 24.1          | <0.6           | <0.6           | 0.6             | 0.6            | 0.45                      | <0.19       | <0.024 | 0       | 55.6   | 44.4    | V.Deg.PHC 78%,(FCM)        |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-7       | 22.4          | <0.56          | <0.56          | 23.7            | 23.7           | 0.98                      | <0.18       | <0.022 | 0       | 64.5   | 35.5    | Deg.Fuel 86.3%,(FCM)       |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-8       | 22.4          | <0.56          | <0.56          | 0.56            | 0.56           | 0.29                      | <0.18       | <0.022 | 93.4    | 3      | 3.6     | V.Deg.PHC 77.2%,(FCM),(P)  |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-9       | 24.3          | <0.61          | <0.61          | 0.61            | 0.61           | 0.5                       | <0.19       | <0.024 | 0       | 53.7   | 46.3    | V.Deg.PHC 77%,(FCM),(P)    |  |  |  |  |  |  |  |  |  |  |    |  |         |
| s                           | 5-10      | 21.1          | <0.53          | <0.53          | 4.1             | 4.1            | 1.8                       | <0.17       | <0.021 | 0       | 65.6   | 34.4    | V.Deg.PHC 95.4%,(FCM)      |  |  |  |  |  |  |  |  |  |  |    |  |         |
| Initial Calibrator QC check |           |               |                |                |                 |                |                           |             |        |         | OK     |         | Final FCM QC Check         |  |  |  |  |  |  |  |  |  |  | OK |  | 100.6 % |

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

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library

(SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present



### Hydrocarbon Analysis Results

**Client:** HART HICKMAN  
**Address:** 2923 S TRYON ST SUITE 100  
 CHARLOTTE NC 28203

**Samples taken** Tuesday, June 25, 2019  
**Samples extracted** Tuesday, June 25, 2019  
**Samples analysed** Thursday, June 27, 2019

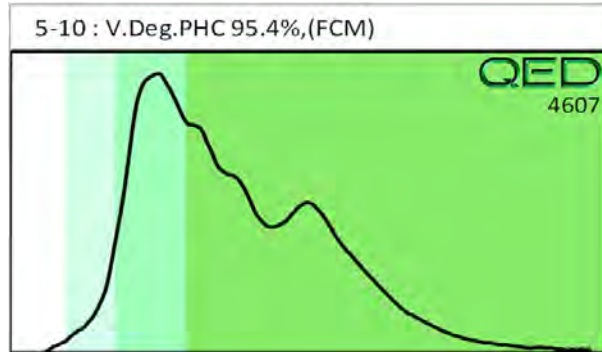
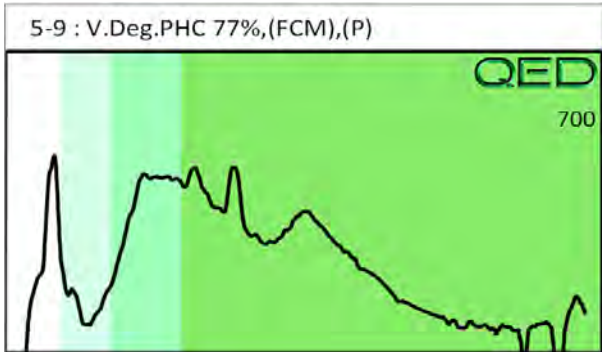
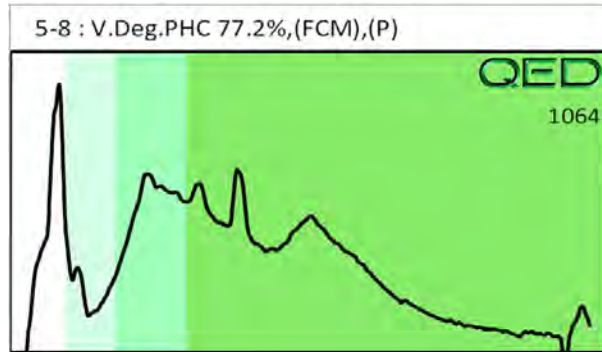
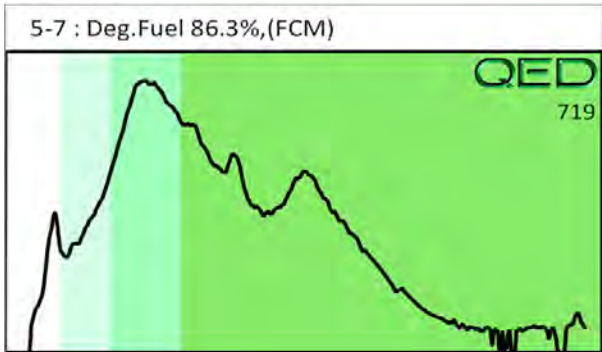
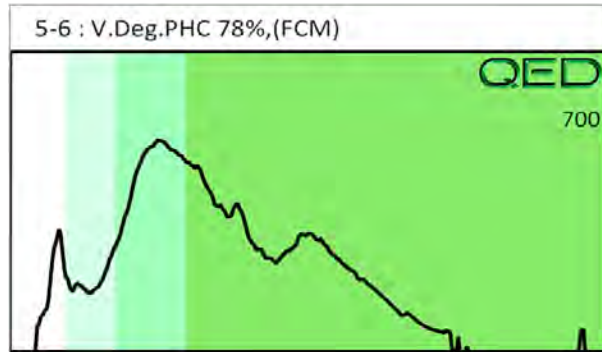
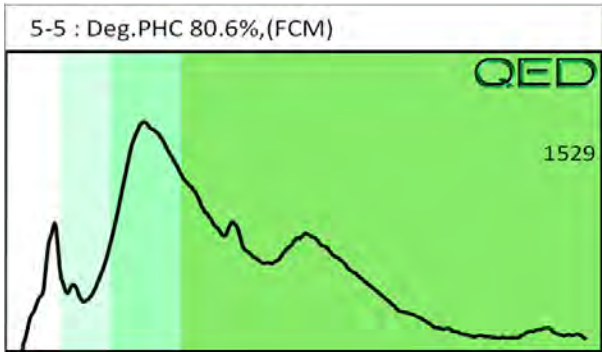
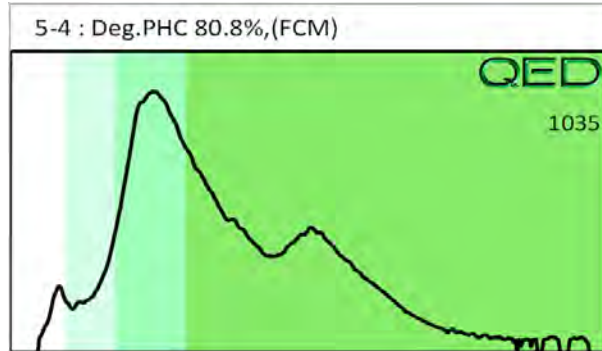
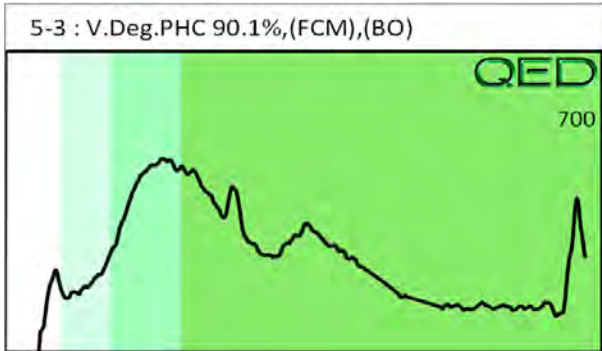
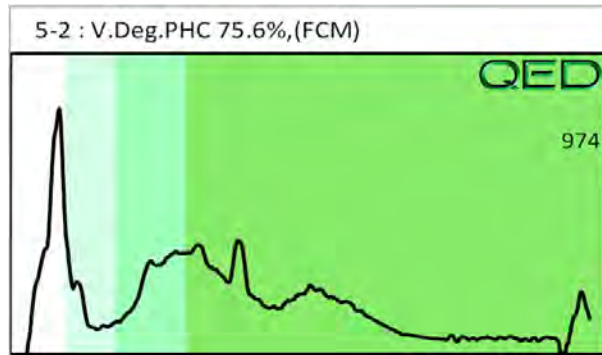
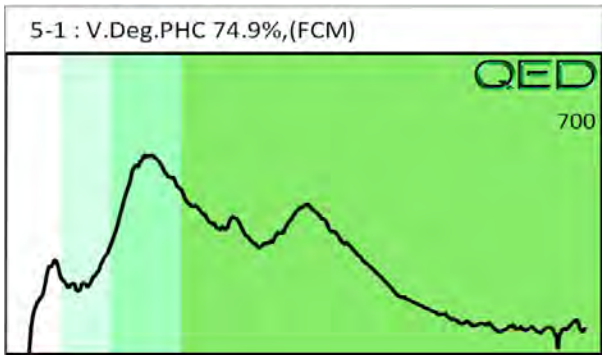
**Contact:** DAVID GRAHAM

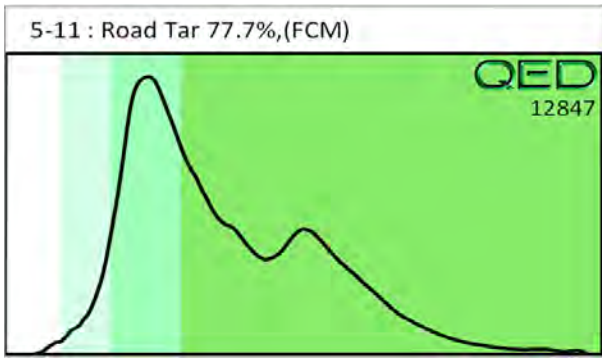
**Operator** JENN RYAN

**Project:** ROW - 603

|                             |           |               |                |                |                 |                |                           |             |        | U04049  |       |                    |                      |    |         |
|-----------------------------|-----------|---------------|----------------|----------------|-----------------|----------------|---------------------------|-------------|--------|---------|-------|--------------------|----------------------|----|---------|
| Matrix                      | Sample ID | Dilution used | BTEX (C6 - C9) | GRO (C5 - C10) | DRO (C10 - C35) | TPH (C5 - C35) | Total Aromatics (C10-C35) | 16 EPA PAHs | BaP    | Ratios  |       |                    | HC Fingerprint Match |    |         |
|                             |           |               |                |                |                 |                |                           |             |        | % light | % mid | % heavy            |                      |    |         |
| s                           | 5-11      | 25.0          | <0.63          | 1.2            | 17.1            | 18.3           | 8.3                       | 0.88        | <0.025 | 18.9    | 58    | 23.1               | Road Tar 77.7%,(FCM) |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
|                             |           |               |                |                |                 |                |                           |             |        |         |       |                    |                      |    |         |
| Initial Calibrator QC check |           |               |                |                |                 |                |                           |             |        | OK      |       | Final FCM QC Check |                      | OK | 109.5 % |

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







5129

Client Name: HART & HICKMAN, P.C.  
 Address: 2423 S. TRYON ST, SUITE 100  
 CHARLOTTE, NC 28203  
 Contact: DAVID GRAHAM  
 Project Ref.: Row-603  
 Email: DGRAHAM@HART&HICKMAN.COM  
 Phone #: 704-586-0007  
 Collected by: AFM, CDG



RED Lab, LLC  
 5598 Marvin K Moss Lane  
 MARBIONC Bldg, Suite 2003  
 Wilmington, NC 28409

Each UVF sample will be analyzed for total BTEX, GRO, DRO, TPH, PAH total aromatics and BaP. Standard GC Analyses are for BTEX and Chlorinated Solvents: VC, 1,1 DCE, 1,2 cis DCE, 1,2 trans DCE, TCE, and PCE. Specify target analytes in the space provided below.

**CHAIN OF CUSTODY AND ANALYTICAL REQUEST FORM**

| Sample Collection | TAT Requested |         | Analysis Type |     | Initials | Sample ID      | Total Wt. | Tare Wt. | Sample Wt. |
|-------------------|---------------|---------|---------------|-----|----------|----------------|-----------|----------|------------|
|                   | Date/Time     | 24 Hour | 48 Hour       | UVF |          |                |           |          |            |
| 6/24/19 / 1200    |               |         | X             |     | CDG      | 4-1 (0-2)      | 55.4      | 44.3     | 11.1       |
| 6/24/19 / 1300    |               |         | X             |     | CDG      | 4-2 (0-2)      | 56.1      | 44.2     | 11.9       |
| 6/24/19 / 1410    |               |         | X             |     | CDG      | 4-3 (0-2)      | 56.9      | 43.9     | 12.5       |
| 6/24/19 / 1445    |               |         | X             |     | CDG      | 4-4 (0-2)      | 55        | 43.7     | 11.3       |
| 6/24/19 / 1635    |               |         | X             |     | CDG      | 4-5 (2-4)      | 56.8      | 44.2     | 12.6       |
| 6/24/19 / 1505    |               |         | X             |     | CDG      | 4-6 (0-2)      | 56.5      | 44.4     | 12.1       |
| 6/24/19 / 1535    |               |         | X             |     | CDG      | 4-7 (8-10)     | 55.7      | 43.8     | 11.9       |
| 6/25/19 / 0820    |               |         | X             |     | CDG      | 5-1            | 53.6      | 44.1     | 9.5        |
| 6/25/19 / 0910    |               |         | X             |     | CDG      | 5-2            | 54.6      | 43.7     | 10.9       |
| 6/25/19 / 0940    |               |         | X             |     | CDG      | 5-3            | 53.3      | 44.4     | 8.9        |
| 6/25/19 / 1015    |               |         | X             |     | CDG      | 5-4            | 52.7      | 43.9     | 8.8        |
| 6/25/19 / 1050    |               |         | X             |     | CDG      | 5-5            | 54        | 44.4     | 9.6        |
| 6/25/19 / 1150    |               |         | X             |     | CDG      | 5-6            | 55        | 44.2     | 10.8       |
| 6/24/19 / 1335    |               |         | X             |     | CDG      | 4-7A 4-7 (2-4) | 56.1      | 44.2     | 11.9       |
| 6/25/19 / 1345    |               |         | X             |     | CDG      | 5-7            | 56.0      | 44.4     | 11.6       |
| 6/25/19 / 1415    |               |         | X             |     | CDG      | 5-8            | 55.5      | 43.9     | 11.6       |
| 6/25/19 / 1455    |               |         | X             |     | CDG      | 5-9            | 54.6      | 43.9     | 10.7       |
| 6/25/19 / 1525    |               |         | X             |     | CDG      | 5-10           | 56.1      | 43.8     | 12.3       |
| 6/25/19 / 1615    |               |         | X             |     | CDG      | 5-11           | 54.7      | 44.3     | 10.4       |
| 6/25/19 / 1810    |               |         | X             |     | CDG      | 5ED 6-1        | 56.5      | 44.1     | 12.4       |

COMMENTS/REQUESTS:  
 PLEASE PRT 4-1 TO 4-7 ON REPORT 1, 5-1 TO 5-11 ON REPORT 2, 5ED 6-1 ON REPORT 3

TARGET GC/UVF ANALYTES: BTEX, GRO, DRO, TPH, PAH, BaP

Relinquished by

Accepted by

Date/Time  
 6/26/19 1832  
 Date/Time

RED Lab USE ONLY  
  
 Ref. No. 061719A





July 05, 2019

David Graham  
Hart & Hickman  
2923 S. Tryon Street  
Charlotte, NC 28203

RE: Project: ROW-603  
Pace Project No.: 92434654

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
1(704)875-9092  
Project Manager

Enclosures

cc: Alan McCreary, Hart & Hickman



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ROW-603

Pace Project No.: 92434654

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### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92434654

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 92434654001 | 5-1       | Solid  | 06/25/19 08:20 | 06/26/19 09:40 |
| 92434654002 | 5-2       | Solid  | 06/25/19 09:10 | 06/26/19 09:40 |
| 92434654003 | 5-3       | Solid  | 06/25/19 09:40 | 06/26/19 09:40 |
| 92434654004 | 5-4       | Solid  | 06/25/19 10:15 | 06/26/19 09:40 |
| 92434654005 | 5-5       | Solid  | 06/25/19 10:50 | 06/26/19 09:40 |
| 92434654006 | 5-6       | Solid  | 06/25/19 11:50 | 06/26/19 09:40 |
| 92434654007 | 5-7       | Solid  | 06/25/19 13:45 | 06/26/19 09:40 |
| 92434654008 | 5-8       | Solid  | 06/25/19 14:15 | 06/26/19 09:40 |
| 92434654009 | 5-9       | Solid  | 06/25/19 14:55 | 06/26/19 09:40 |
| 92434654010 | 5-10      | Solid  | 06/25/19 15:25 | 06/26/19 09:40 |
| 92434654011 | 5-11      | Solid  | 06/25/19 16:15 | 06/26/19 09:40 |

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### SAMPLE ANALYTE COUNT

Project: ROW-603  
Pace Project No.: 92434654

| Lab ID      | Sample ID | Method         | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|----------------|----------|-------------------|------------|
| 92434654001 | 5-1       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654002 | 5-2       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654003 | 5-3       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654004 | 5-4       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654005 | 5-5       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654006 | 5-6       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654007 | 5-7       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654008 | 5-8       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654009 | 5-9       | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654010 | 5-10      | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654011 | 5-11      | EPA 8260D      | DLK      | 70                | PASI-C     |
|             |           | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
|             |           | ASTM D2974-87  | KDF      | 1                 | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-1**      **Lab ID: 92434654001**      Collected: 06/25/19 08:20      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |         |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |         |       |              |        |    |                |                |            |      |
| Acetone   | 0.13    | mg/kg | 0.12         | 0.012  | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 67-64-1    |      |
| Benzene   | ND      | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 71-43-2    |      |
| Bromobenzene  | ND      | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-86-1   |      |
| Bromochloromethane  | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 74-97-5    |      |
| Bromodichloromethane  | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-27-4    |      |
| Bromoform   | ND      | mg/kg | 0.0059       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-25-2    |      |
| Bromomethane  | ND      | mg/kg | 0.012        | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND      | mg/kg | 0.12         | 0.0034 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 78-93-3    |      |
| n-Butylbenzene  | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 104-51-8   |      |
| sec-Butylbenzene  | ND      | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 135-98-8   |      |
| tert-Butylbenzene   | ND      | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 98-06-6    |      |
| Carbon tetrachloride  | ND      | mg/kg | 0.0059       | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 56-23-5    |      |
| Chlorobenzene   | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-90-7   |      |
| Chloroethane  | ND      | mg/kg | 0.012        | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-00-3    |      |
| Chloroform  | ND      | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 67-66-3    |      |
| Chloromethane   | ND      | mg/kg | 0.012        | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 74-87-3    |      |
| 2-Chlorotoluene   | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 95-49-8    |      |
| 4-Chlorotoluene   | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND      | mg/kg | 0.0059       | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 96-12-8    |      |
| Dibromochloromethane  | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 106-93-4   |      |
| Dibromomethane  | ND      | mg/kg | 0.0059       | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND      | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND      | mg/kg | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND      | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND      | mg/kg | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene  | ND      | mg/kg | 0.0059       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND      | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND      | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 10061-02-6 |      |
| Diisopropyl ether   | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-20-3   |      |
| Ethylbenzene  | ND      | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND      | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 87-68-3    |      |
| 2-Hexanone  | ND      | mg/kg | 0.059        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND      | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 98-82-8    |      |
| p-Isopropyltoluene  | ND      | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 99-87-6    |      |
| Methylene Chloride  | ND      | mg/kg | 0.023        | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND      | mg/kg | 0.059        | 0.0043 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-10-1   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-1**      **Lab ID: 92434654001**      Collected: 06/25/19 08:20      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0059       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.059        | 0.010  | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.012        | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 99          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 102         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 99          | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 21:22 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.012        | 0.0036 | 1  | 07/03/19 12:46 | 07/03/19 14:52 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 90          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 14:52 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 96          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 14:52 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>26.5</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:07 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-2**      **Lab ID: 92434654002**      Collected: 06/25/19 09:10      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results      | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|--------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |              |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |              |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.11J</b> | mg/kg | 0.12         | 0.012  | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 67-64-1    |      |
| Benzene   | ND           | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 71-43-2    |      |
| Bromobenzene  | ND           | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-86-1   |      |
| Bromochloromethane  | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 74-97-5    |      |
| Bromodichloromethane  | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-27-4    |      |
| Bromoform   | ND           | mg/kg | 0.0059       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-25-2    |      |
| Bromomethane  | ND           | mg/kg | 0.012        | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND           | mg/kg | 0.12         | 0.0034 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 78-93-3    |      |
| n-Butylbenzene  | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 104-51-8   |      |
| sec-Butylbenzene  | ND           | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND           | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 98-06-6    |      |
| Carbon tetrachloride  | ND           | mg/kg | 0.0059       | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 56-23-5    |      |
| Chlorobenzene   | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-90-7   |      |
| Chloroethane  | ND           | mg/kg | 0.012        | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-00-3    |      |
| Chloroform  | ND           | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 67-66-3    |      |
| Chloromethane   | ND           | mg/kg | 0.012        | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 74-87-3    |      |
| 2-Chlorotoluene   | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 95-49-8    |      |
| 4-Chlorotoluene   | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND           | mg/kg | 0.0059       | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 96-12-8    |      |
| Dibromochloromethane  | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 106-93-4   |      |
| Dibromomethane  | ND           | mg/kg | 0.0059       | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND           | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND           | mg/kg | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND           | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND           | mg/kg | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND           | mg/kg | 0.0059       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND           | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND           | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 10061-02-6 |      |
| Diisopropyl ether   | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-20-3   |      |
| Ethylbenzene  | ND           | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND           | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 87-68-3    |      |
| 2-Hexanone  | ND           | mg/kg | 0.059        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND           | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 98-82-8    |      |
| p-Isopropyltoluene  | ND           | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 99-87-6    |      |
| Methylene Chloride  | ND           | mg/kg | 0.023        | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND           | mg/kg | 0.059        | 0.0043 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-2**      **Lab ID: 92434654002**      Collected: 06/25/19 09:10      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results     | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|-------------|-------|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b>                                    |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |             |       |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether   | ND          | mg/kg | 0.0059       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 1634-04-4   |      |
| Naphthalene   | ND          | mg/kg | 0.0059       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 91-20-3     |      |
| n-Propylbenzene   | ND          | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 103-65-1    |      |
| Styrene   | ND          | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | ND          | mg/kg | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | ND          | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 79-34-5     |      |
| Tetrachloroethene   | ND          | mg/kg | 0.0059       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 127-18-4    |      |
| Toluene   | ND          | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | ND          | mg/kg | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene  | ND          | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | ND          | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | ND          | mg/kg | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 79-00-5     |      |
| Trichloroethene   | ND          | mg/kg | 0.0059       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 79-01-6     |      |
| Trichlorofluoromethane  | ND          | mg/kg | 0.0059       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | ND          | mg/kg | 0.0059       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene  | ND          | mg/kg | 0.0059       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | ND          | mg/kg | 0.0059       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-67-8    |      |
| Vinyl acetate   | ND          | mg/kg | 0.059        | 0.010  | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 108-05-4    |      |
| Vinyl chloride  | ND          | mg/kg | 0.012        | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 75-01-4     |      |
| Xylene (Total)  | ND          | mg/kg | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 1330-20-7   |      |
| m&p-Xylene  | ND          | mg/kg | 0.012        | 0.0042 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 179601-23-1 |      |
| o-Xylene  | ND          | mg/kg | 0.0059       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 95-47-6     |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| Toluene-d8 (S)  | 110         | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 2037-26-5   | IS   |
| 4-Bromofluorobenzene (S)  | 105         | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 124         | %     | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 21:48 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |             |       |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)   | ND          | mg/kg | 0.011        | 0.0033 | 1  | 07/03/19 12:46 | 07/03/19 15:12 | 123-91-1    |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)   | 93          | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:12 | 17060-07-0  |      |
| Toluene-d8 (S)  | 96          | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:12 | 2037-26-5   |      |
| <b>Percent Moisture</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |             |       |              |        |    |                |                |             |      |
| Percent Moisture  | <b>28.5</b> | %     | 0.10         | 0.10   | 1  |                | 06/26/19 17:07 |             |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-3**      **Lab ID: 92434654003**      Collected: 06/25/19 09:40      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results        | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|----------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |                |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |                |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.27</b>    | mg/kg | 0.12         | 0.012  | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 67-64-1    |      |
| Benzene   | ND             | mg/kg | 0.0061       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 71-43-2    |      |
| Bromobenzene  | ND             | mg/kg | 0.0061       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-86-1   |      |
| Bromochloromethane  | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 74-97-5    |      |
| Bromodichloromethane  | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-27-4    |      |
| Bromoform   | ND             | mg/kg | 0.0061       | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-25-2    |      |
| Bromomethane  | ND             | mg/kg | 0.012        | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 74-83-9    |      |
| 2-Butanone (MEK)  | <b>0.0067J</b> | mg/kg | 0.12         | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 78-93-3    |      |
| n-Butylbenzene  | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 104-51-8   |      |
| sec-Butylbenzene  | ND             | mg/kg | 0.0061       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND             | mg/kg | 0.0061       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 98-06-6    |      |
| Carbon tetrachloride  | ND             | mg/kg | 0.0061       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 56-23-5    |      |
| Chlorobenzene   | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-90-7   |      |
| Chloroethane  | ND             | mg/kg | 0.012        | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-00-3    |      |
| Chloroform  | ND             | mg/kg | 0.0061       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 67-66-3    |      |
| Chloromethane   | ND             | mg/kg | 0.012        | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 74-87-3    |      |
| 2-Chlorotoluene   | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 95-49-8    |      |
| 4-Chlorotoluene   | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND             | mg/kg | 0.0061       | 0.0044 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 96-12-8    |      |
| Dibromochloromethane  | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 106-93-4   |      |
| Dibromomethane  | ND             | mg/kg | 0.0061       | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND             | mg/kg | 0.0061       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND             | mg/kg | 0.012        | 0.0044 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND             | mg/kg | 0.0061       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND             | mg/kg | 0.0061       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND             | mg/kg | 0.0061       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND             | mg/kg | 0.0061       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND             | mg/kg | 0.0061       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 10061-02-6 |      |
| Diisopropyl ether   | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-20-3   |      |
| Ethylbenzene  | ND             | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND             | mg/kg | 0.0061       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 87-68-3    |      |
| 2-Hexanone  | ND             | mg/kg | 0.061        | 0.0047 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND             | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 98-82-8    |      |
| p-Isopropyltoluene  | ND             | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 99-87-6    |      |
| Methylene Chloride  | ND             | mg/kg | 0.024        | 0.0036 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND             | mg/kg | 0.061        | 0.0045 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-3**      **Lab ID: 92434654003**      Collected: 06/25/19 09:40      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results     | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|-------------|-------|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b>                                    |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |             |       |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether   | ND          | mg/kg | 0.0061       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 1634-04-4   |      |
| Naphthalene   | ND          | mg/kg | 0.0061       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 91-20-3     |      |
| n-Propylbenzene   | ND          | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 103-65-1    |      |
| Styrene   | ND          | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | ND          | mg/kg | 0.0061       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | ND          | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 79-34-5     |      |
| Tetrachloroethene   | ND          | mg/kg | 0.0061       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 127-18-4    |      |
| Toluene   | ND          | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | ND          | mg/kg | 0.0061       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene  | ND          | mg/kg | 0.0061       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | ND          | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | ND          | mg/kg | 0.0061       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 79-00-5     |      |
| Trichloroethene   | ND          | mg/kg | 0.0061       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 79-01-6     |      |
| Trichlorofluoromethane  | ND          | mg/kg | 0.0061       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | ND          | mg/kg | 0.0061       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene  | ND          | mg/kg | 0.0061       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | ND          | mg/kg | 0.0061       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-67-8    |      |
| Vinyl acetate   | ND          | mg/kg | 0.061        | 0.011  | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 108-05-4    |      |
| Vinyl chloride  | ND          | mg/kg | 0.012        | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 75-01-4     |      |
| Xylene (Total)  | ND          | mg/kg | 0.012        | 0.0044 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 1330-20-7   |      |
| m&p-Xylene  | ND          | mg/kg | 0.012        | 0.0044 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 179601-23-1 |      |
| o-Xylene  | ND          | mg/kg | 0.0061       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 95-47-6     |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| Toluene-d8 (S)  | 98          | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)  | 107         | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 120         | %     | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 22:14 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |             |       |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)   | ND          | mg/kg | 0.015        | 0.0046 | 1  | 07/03/19 12:46 | 07/03/19 15:31 | 123-91-1    |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)   | 96          | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:31 | 17060-07-0  |      |
| Toluene-d8 (S)  | 100         | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:31 | 2037-26-5   |      |
| <b>Percent Moisture</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |             |       |              |        |    |                |                |             |      |
| Percent Moisture  | <b>32.5</b> | %     | 0.10         | 0.10   | 1  |                | 06/26/19 17:07 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-4**      **Lab ID: 92434654004**      Collected: 06/25/19 10:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |               |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |               |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.039J</b> | mg/kg | 0.13         | 0.013  | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 67-64-1    |      |
| Benzene   | ND            | mg/kg | 0.0064       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 71-43-2    |      |
| Bromobenzene  | ND            | mg/kg | 0.0064       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-86-1   |      |
| Bromochloromethane  | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 74-97-5    |      |
| Bromodichloromethane  | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-27-4    |      |
| Bromoform   | ND            | mg/kg | 0.0064       | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-25-2    |      |
| Bromomethane  | ND            | mg/kg | 0.013        | 0.0032 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND            | mg/kg | 0.13         | 0.0037 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 78-93-3    |      |
| n-Butylbenzene  | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 104-51-8   |      |
| sec-Butylbenzene  | ND            | mg/kg | 0.0064       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND            | mg/kg | 0.0064       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 98-06-6    |      |
| Carbon tetrachloride  | ND            | mg/kg | 0.0064       | 0.0033 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 56-23-5    |      |
| Chlorobenzene   | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-90-7   |      |
| Chloroethane  | ND            | mg/kg | 0.013        | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-00-3    |      |
| Chloroform  | ND            | mg/kg | 0.0064       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 67-66-3    |      |
| Chloromethane   | ND            | mg/kg | 0.013        | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 74-87-3    |      |
| 2-Chlorotoluene   | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 95-49-8    |      |
| 4-Chlorotoluene   | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND            | mg/kg | 0.0064       | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 96-12-8    |      |
| Dibromochloromethane  | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 106-93-4   |      |
| Dibromomethane  | ND            | mg/kg | 0.0064       | 0.0032 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND            | mg/kg | 0.0064       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND            | mg/kg | 0.013        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND            | mg/kg | 0.0064       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND            | mg/kg | 0.0064       | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND            | mg/kg | 0.0064       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND            | mg/kg | 0.0064       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND            | mg/kg | 0.0064       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 10061-02-6 |      |
| Diisopropyl ether   | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-20-3   |      |
| Ethylbenzene  | ND            | mg/kg | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND            | mg/kg | 0.0064       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 87-68-3    |      |
| 2-Hexanone  | ND            | mg/kg | 0.064        | 0.0050 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND            | mg/kg | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 98-82-8    |      |
| p-Isopropyltoluene  | ND            | mg/kg | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 99-87-6    |      |
| Methylene Chloride  | ND            | mg/kg | 0.026        | 0.0039 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND            | mg/kg | 0.064        | 0.0048 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-4**      **Lab ID: 92434654004**      Collected: 06/25/19 10:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0064       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0064       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0064       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0064       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0064       | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0064       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0064       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0064       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0064       | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0064       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0064       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0064       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.064        | 0.011  | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.013        | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.013        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.013        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0064       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 97          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 99          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 98          | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 22:39 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.012        | 0.0035 | 1  | 07/03/19 12:46 | 07/03/19 15:51 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 83          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:51 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 94          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 15:51 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>21.1</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

Sample: 5-5 Lab ID: 92434654005 Collected: 06/25/19 10:50 Received: 06/26/19 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                       |         |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D Preparation Method: EPA 5035A |         |       |              |        |    |                |                |            |      |
| Acetone  | 0.049J  | mg/kg | 0.12         | 0.012  | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 67-64-1    |      |
| Benzene  | ND      | mg/kg | 0.0062       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 71-43-2    |      |
| Bromobenzene   | ND      | mg/kg | 0.0062       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-86-1   |      |
| Bromochloromethane   | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 74-97-5    |      |
| Bromodichloromethane                                       | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-27-4    |      |
| Bromoform  | ND      | mg/kg | 0.0062       | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-25-2    |      |
| Bromomethane   | ND      | mg/kg | 0.012        | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 74-83-9    |      |
| 2-Butanone (MEK)   | ND      | mg/kg | 0.12         | 0.0036 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 78-93-3    |      |
| n-Butylbenzene   | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 104-51-8   |      |
| sec-Butylbenzene   | ND      | mg/kg | 0.0062       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 135-98-8   | IK   |
| tert-Butylbenzene  | ND      | mg/kg | 0.0062       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 98-06-6    |      |
| Carbon tetrachloride                                       | ND      | mg/kg | 0.0062       | 0.0032 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 56-23-5    |      |
| Chlorobenzene  | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-90-7   |      |
| Chloroethane   | ND      | mg/kg | 0.012        | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-00-3    |      |
| Chloroform   | ND      | mg/kg | 0.0062       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 67-66-3    |      |
| Chloromethane  | ND      | mg/kg | 0.012        | 0.0030 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 74-87-3    |      |
| 2-Chlorotoluene  | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 95-49-8    |      |
| 4-Chlorotoluene  | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                | ND      | mg/kg | 0.0062       | 0.0045 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 96-12-8    |      |
| Dibromochloromethane                                       | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                    | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 106-93-4   |      |
| Dibromomethane   | ND      | mg/kg | 0.0062       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 74-95-3    |      |
| 1,2-Dichlorobenzene  | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 95-50-1    |      |
| 1,3-Dichlorobenzene  | ND      | mg/kg | 0.0062       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 541-73-1   |      |
| 1,4-Dichlorobenzene  | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 106-46-7   |      |
| Dichlorodifluoromethane                                    | ND      | mg/kg | 0.012        | 0.0045 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-71-8    | L1   |
| 1,1-Dichloroethane   | ND      | mg/kg | 0.0062       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-34-3    |      |
| 1,2-Dichloroethane   | ND      | mg/kg | 0.0062       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 107-06-2   |      |
| 1,1-Dichloroethene   | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene                                     | ND      | mg/kg | 0.0062       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                   | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 156-60-5   |      |
| 1,2-Dichloropropane  | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 78-87-5    |      |
| 1,3-Dichloropropane  | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 142-28-9   |      |
| 2,2-Dichloropropane  | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 594-20-7   |      |
| 1,1-Dichloropropene  | ND      | mg/kg | 0.0062       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                    | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                  | ND      | mg/kg | 0.0062       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 10061-02-6 |      |
| Diisopropyl ether  | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-20-3   |      |
| Ethylbenzene   | ND      | mg/kg | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                   | ND      | mg/kg | 0.0062       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 87-68-3    |      |
| 2-Hexanone   | ND      | mg/kg | 0.062        | 0.0048 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                  | ND      | mg/kg | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 98-82-8    |      |
| p-Isopropyltoluene   | ND      | mg/kg | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 99-87-6    |      |
| Methylene Chloride   | ND      | mg/kg | 0.025        | 0.0037 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                | ND      | mg/kg | 0.062        | 0.0046 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-5**      **Lab ID: 92434654005**      Collected: 06/25/19 10:50      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0062       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0062       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0062       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0062       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0062       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0062       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0062       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0062       | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0062       | 0.0027 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0062       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0062       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0062       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.062        | 0.011  | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.012        | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.012        | 0.0045 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.012        | 0.0045 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0062       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 99          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 101         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 105         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 23:05 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.010        | 0.0030 | 1  | 07/03/19 12:46 | 07/03/19 16:11 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 89          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 16:11 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 95          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 16:11 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>19.0</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-6**      **Lab ID: 92434654006**      Collected: 06/25/19 11:50      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |               |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |               |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.026J</b> | mg/kg | 0.096        | 0.0096 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 67-64-1    |      |
| Benzene   | ND            | mg/kg | 0.0048       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 71-43-2    |      |
| Bromobenzene  | ND            | mg/kg | 0.0048       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-86-1   |      |
| Bromochloromethane  | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 74-97-5    |      |
| Bromodichloromethane  | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-27-4    |      |
| Bromoform   | ND            | mg/kg | 0.0048       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-25-2    |      |
| Bromomethane  | ND            | mg/kg | 0.0096       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND            | mg/kg | 0.096        | 0.0028 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 78-93-3    |      |
| n-Butylbenzene  | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 104-51-8   |      |
| sec-Butylbenzene  | ND            | mg/kg | 0.0048       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND            | mg/kg | 0.0048       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 98-06-6    |      |
| Carbon tetrachloride  | ND            | mg/kg | 0.0048       | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 56-23-5    |      |
| Chlorobenzene   | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-90-7   |      |
| Chloroethane  | ND            | mg/kg | 0.0096       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-00-3    |      |
| Chloroform  | ND            | mg/kg | 0.0048       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 67-66-3    |      |
| Chloromethane   | ND            | mg/kg | 0.0096       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 74-87-3    |      |
| 2-Chlorotoluene   | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 95-49-8    |      |
| 4-Chlorotoluene   | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND            | mg/kg | 0.0048       | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 96-12-8    |      |
| Dibromochloromethane  | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 106-93-4   |      |
| Dibromomethane  | ND            | mg/kg | 0.0048       | 0.0024 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND            | mg/kg | 0.0048       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND            | mg/kg | 0.0096       | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND            | mg/kg | 0.0048       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND            | mg/kg | 0.0048       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND            | mg/kg | 0.0048       | 0.0013 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND            | mg/kg | 0.0048       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND            | mg/kg | 0.0048       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 10061-02-6 |      |
| Diisopropyl ether   | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-20-3   |      |
| Ethylbenzene  | ND            | mg/kg | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND            | mg/kg | 0.0048       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 87-68-3    |      |
| 2-Hexanone  | ND            | mg/kg | 0.048        | 0.0037 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND            | mg/kg | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 98-82-8    |      |
| p-Isopropyltoluene  | ND            | mg/kg | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 99-87-6    |      |
| Methylene Chloride  | ND            | mg/kg | 0.019        | 0.0029 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND            | mg/kg | 0.048        | 0.0036 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-10-1   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-6**      **Lab ID: 92434654006**      Collected: 06/25/19 11:50      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0048       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0048       | 0.0012 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0048       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0048       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0048       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0048       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0048       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0048       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0048       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0048       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0048       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0048       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.048        | 0.0085 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.0096       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.0096       | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.0096       | 0.0035 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0048       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 100         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 103         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 101         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 23:30 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.011        | 0.0033 | 1  | 07/03/19 12:46 | 07/03/19 16:51 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 92          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 16:51 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 97          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 16:51 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>21.0</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-7**      **Lab ID: 92434654007**      Collected: 06/25/19 13:45      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |         |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |         |       |              |        |    |                |                |            |      |
| Acetone   | 0.055J  | mg/kg | 0.087        | 0.0087 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 67-64-1    |      |
| Benzene   | ND      | mg/kg | 0.0044       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 71-43-2    |      |
| Bromobenzene  | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-86-1   |      |
| Bromochloromethane  | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 74-97-5    |      |
| Bromodichloromethane  | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-27-4    |      |
| Bromoform   | ND      | mg/kg | 0.0044       | 0.0020 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-25-2    |      |
| Bromomethane  | ND      | mg/kg | 0.0087       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND      | mg/kg | 0.087        | 0.0025 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 78-93-3    |      |
| n-Butylbenzene  | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 104-51-8   |      |
| sec-Butylbenzene  | ND      | mg/kg | 0.0044       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 98-06-6    |      |
| Carbon tetrachloride  | ND      | mg/kg | 0.0044       | 0.0023 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 56-23-5    |      |
| Chlorobenzene   | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-90-7   |      |
| Chloroethane  | ND      | mg/kg | 0.0087       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-00-3    |      |
| Chloroform  | ND      | mg/kg | 0.0044       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 67-66-3    |      |
| Chloromethane   | ND      | mg/kg | 0.0087       | 0.0021 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 74-87-3    |      |
| 2-Chlorotoluene   | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 95-49-8    |      |
| 4-Chlorotoluene   | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND      | mg/kg | 0.0044       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 96-12-8    |      |
| Dibromochloromethane  | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 106-93-4   |      |
| Dibromomethane  | ND      | mg/kg | 0.0044       | 0.0022 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND      | mg/kg | 0.0087       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND      | mg/kg | 0.0044       | 0.0013 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND      | mg/kg | 0.0044       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND      | mg/kg | 0.0044       | 0.0012 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND      | mg/kg | 0.0044       | 0.0013 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND      | mg/kg | 0.0044       | 0.0013 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 10061-02-6 |      |
| Diisopropyl ether   | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-20-3   |      |
| Ethylbenzene  | ND      | mg/kg | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 87-68-3    |      |
| 2-Hexanone  | ND      | mg/kg | 0.044        | 0.0034 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND      | mg/kg | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 98-82-8    |      |
| p-Isopropyltoluene  | ND      | mg/kg | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 99-87-6    |      |
| Methylene Chloride  | ND      | mg/kg | 0.017        | 0.0026 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND      | mg/kg | 0.044        | 0.0032 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-7**      **Lab ID: 92434654007**      Collected: 06/25/19 13:45      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0044       | 0.0013 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0044       | 0.0010 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0044       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0044       | 0.0015 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0044       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0044       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0044       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0044       | 0.0018 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0044       | 0.0019 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0044       | 0.0014 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0044       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.044        | 0.0077 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.0087       | 0.0016 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.0087       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.0087       | 0.0031 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0044       | 0.0017 | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 99          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 103         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 106         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/01/19 23:56 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.012        | 0.0036 | 1  | 07/03/19 12:46 | 07/03/19 17:11 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 89          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:11 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 99          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:11 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>18.7</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-8**      **Lab ID: 92434654008**      Collected: 06/25/19 14:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |               |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |               |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.068J</b> | mg/kg | 0.093        | 0.0093 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 67-64-1    |      |
| Benzene   | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 71-43-2    |      |
| Bromobenzene  | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-86-1   |      |
| Bromochloromethane  | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 74-97-5    |      |
| Bromodichloromethane  | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-27-4    |      |
| Bromoform   | ND            | mg/kg | 0.0046       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-25-2    |      |
| Bromomethane  | ND            | mg/kg | 0.0093       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND            | mg/kg | 0.093        | 0.0027 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 78-93-3    |      |
| n-Butylbenzene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 104-51-8   |      |
| sec-Butylbenzene  | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 98-06-6    |      |
| Carbon tetrachloride  | ND            | mg/kg | 0.0046       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 56-23-5    |      |
| Chlorobenzene   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-90-7   |      |
| Chloroethane  | ND            | mg/kg | 0.0093       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-00-3    |      |
| Chloroform  | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 67-66-3    |      |
| Chloromethane   | ND            | mg/kg | 0.0093       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 74-87-3    |      |
| 2-Chlorotoluene   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 95-49-8    |      |
| 4-Chlorotoluene   | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND            | mg/kg | 0.0046       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 96-12-8    |      |
| Dibromochloromethane  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 106-93-4   |      |
| Dibromomethane  | ND            | mg/kg | 0.0046       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND            | mg/kg | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND            | mg/kg | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND            | mg/kg | 0.0046       | 0.0013 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 10061-02-6 |      |
| Diisopropyl ether   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-20-3   |      |
| Ethylbenzene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 87-68-3    |      |
| 2-Hexanone  | ND            | mg/kg | 0.046        | 0.0036 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 98-82-8    |      |
| p-Isopropyltoluene  | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 99-87-6    |      |
| Methylene Chloride  | ND            | mg/kg | 0.019        | 0.0028 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND            | mg/kg | 0.046        | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-8**      **Lab ID: 92434654008**      Collected: 06/25/19 14:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0046       | 0.0011 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.046        | 0.0082 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.0093       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 96          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 100         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 104         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/02/19 00:22 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.0080       | 0.0024 | 1  | 07/03/19 12:46 | 07/03/19 17:31 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 91          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:31 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 96          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:31 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>15.2</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-9**      **Lab ID: 92434654009**      Collected: 06/25/19 14:55      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |               |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |               |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.011J</b> | mg/kg | 0.094        | 0.0094 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 67-64-1    |      |
| Benzene   | ND            | mg/kg | 0.0047       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 71-43-2    |      |
| Bromobenzene  | ND            | mg/kg | 0.0047       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-86-1   |      |
| Bromochloromethane  | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 74-97-5    |      |
| Bromodichloromethane  | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-27-4    |      |
| Bromoform   | ND            | mg/kg | 0.0047       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-25-2    |      |
| Bromomethane  | ND            | mg/kg | 0.0094       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND            | mg/kg | 0.094        | 0.0027 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 78-93-3    |      |
| n-Butylbenzene  | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 104-51-8   |      |
| sec-Butylbenzene  | ND            | mg/kg | 0.0047       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND            | mg/kg | 0.0047       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 98-06-6    |      |
| Carbon tetrachloride  | ND            | mg/kg | 0.0047       | 0.0025 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 56-23-5    |      |
| Chlorobenzene   | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-90-7   |      |
| Chloroethane  | ND            | mg/kg | 0.0094       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-00-3    |      |
| Chloroform  | ND            | mg/kg | 0.0047       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 67-66-3    |      |
| Chloromethane   | ND            | mg/kg | 0.0094       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 74-87-3    |      |
| 2-Chlorotoluene   | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 95-49-8    |      |
| 4-Chlorotoluene   | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND            | mg/kg | 0.0047       | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 96-12-8    |      |
| Dibromochloromethane  | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 106-93-4   |      |
| Dibromomethane  | ND            | mg/kg | 0.0047       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND            | mg/kg | 0.0047       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND            | mg/kg | 0.0094       | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND            | mg/kg | 0.0047       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND            | mg/kg | 0.0047       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND            | mg/kg | 0.0047       | 0.0013 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND            | mg/kg | 0.0047       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND            | mg/kg | 0.0047       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 10061-02-6 |      |
| Diisopropyl ether   | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-20-3   |      |
| Ethylbenzene  | ND            | mg/kg | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND            | mg/kg | 0.0047       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 87-68-3    |      |
| 2-Hexanone  | ND            | mg/kg | 0.047        | 0.0037 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND            | mg/kg | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 98-82-8    |      |
| p-Isopropyltoluene  | ND            | mg/kg | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 99-87-6    |      |
| Methylene Chloride  | ND            | mg/kg | 0.019        | 0.0028 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND            | mg/kg | 0.047        | 0.0035 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-9**      **Lab ID: 92434654009**      Collected: 06/25/19 14:55      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0047       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0047       | 0.0011 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0047       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0047       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0047       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0047       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0047       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0047       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0047       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0047       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0047       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0047       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.047        | 0.0083 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.0094       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.0094       | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.0094       | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0047       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 98          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 101         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 107         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/02/19 00:47 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.0092       | 0.0028 | 1  | 07/03/19 12:46 | 07/03/19 17:50 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 92          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:50 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 97          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 17:50 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>15.9</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:08 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-10**      **Lab ID: 92434654010**      Collected: 06/25/19 15:25      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |               |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |               |       |              |        |    |                |                |            |      |
| Acetone   | <b>0.029J</b> | mg/kg | 0.093        | 0.0093 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 67-64-1    |      |
| Benzene   | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 71-43-2    |      |
| Bromobenzene  | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-86-1   |      |
| Bromochloromethane  | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 74-97-5    |      |
| Bromodichloromethane  | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-27-4    |      |
| Bromoform   | ND            | mg/kg | 0.0046       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-25-2    |      |
| Bromomethane  | ND            | mg/kg | 0.0093       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND            | mg/kg | 0.093        | 0.0027 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 78-93-3    |      |
| n-Butylbenzene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 104-51-8   |      |
| sec-Butylbenzene  | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 98-06-6    |      |
| Carbon tetrachloride  | ND            | mg/kg | 0.0046       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 56-23-5    |      |
| Chlorobenzene   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-90-7   |      |
| Chloroethane  | ND            | mg/kg | 0.0093       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-00-3    |      |
| Chloroform  | ND            | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 67-66-3    |      |
| Chloromethane   | ND            | mg/kg | 0.0093       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 74-87-3    |      |
| 2-Chlorotoluene   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 95-49-8    |      |
| 4-Chlorotoluene   | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND            | mg/kg | 0.0046       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 96-12-8    |      |
| Dibromochloromethane  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 106-93-4   |      |
| Dibromomethane  | ND            | mg/kg | 0.0046       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND            | mg/kg | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND            | mg/kg | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND            | mg/kg | 0.0046       | 0.0013 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND            | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 10061-02-6 |      |
| Diisopropyl ether   | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-20-3   |      |
| Ethylbenzene  | ND            | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND            | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 87-68-3    |      |
| 2-Hexanone  | ND            | mg/kg | 0.046        | 0.0036 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND            | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 98-82-8    |      |
| p-Isopropyltoluene  | ND            | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 99-87-6    |      |
| Methylene Chloride  | ND            | mg/kg | 0.019        | 0.0028 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND            | mg/kg | 0.046        | 0.0034 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-10**      **Lab ID: 92434654010**      Collected: 06/25/19 15:25      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results     | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|-------------|-------|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b>                                    |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |             |       |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether   | ND          | mg/kg | 0.0046       | 0.0014 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 1634-04-4   |      |
| Naphthalene   | ND          | mg/kg | 0.0046       | 0.0011 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 91-20-3     |      |
| n-Propylbenzene   | ND          | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 103-65-1    |      |
| Styrene   | ND          | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | ND          | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | ND          | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 79-34-5     |      |
| Tetrachloroethene   | ND          | mg/kg | 0.0046       | 0.0016 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 127-18-4    |      |
| Toluene   | ND          | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | ND          | mg/kg | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene  | ND          | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | ND          | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | ND          | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 79-00-5     |      |
| Trichloroethene   | ND          | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 79-01-6     |      |
| Trichlorofluoromethane  | ND          | mg/kg | 0.0046       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | ND          | mg/kg | 0.0046       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene  | ND          | mg/kg | 0.0046       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | ND          | mg/kg | 0.0046       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-67-8    |      |
| Vinyl acetate   | ND          | mg/kg | 0.046        | 0.0081 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 108-05-4    |      |
| Vinyl chloride  | ND          | mg/kg | 0.0093       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 75-01-4     |      |
| Xylene (Total)  | ND          | mg/kg | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 1330-20-7   |      |
| m&p-Xylene  | ND          | mg/kg | 0.0093       | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 179601-23-1 |      |
| o-Xylene  | ND          | mg/kg | 0.0046       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 95-47-6     |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| Toluene-d8 (S)  | 98          | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)  | 101         | %     | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 102         | %     | 70-132       |        | 1  | 07/01/19 13:49 | 07/02/19 01:13 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |             |       |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)   | ND          | mg/kg | 0.0093       | 0.0028 | 1  | 07/03/19 12:46 | 07/03/19 18:10 | 123-91-1    |      |
| <b>Surrogates</b>   |             |       |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)   | 93          | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 18:10 | 17060-07-0  |      |
| Toluene-d8 (S)  | 96          | %     | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 18:10 | 2037-26-5   |      |
| <b>Percent Moisture</b>   |             |       |              |        |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |             |       |              |        |    |                |                |             |      |
| Percent Moisture  | <b>14.0</b> | %     | 0.10         | 0.10   | 1  |                | 06/26/19 17:29 |             |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-11**      **Lab ID: 92434654011**      Collected: 06/25/19 16:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| <b>8260D/5035A Volatile Organics</b>                          |         |       |              |        |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: EPA 5035A |         |       |              |        |    |                |                |            |      |
| Acetone   | 0.061J  | mg/kg | 0.11         | 0.011  | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 67-64-1    |      |
| Benzene   | ND      | mg/kg | 0.0055       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 71-43-2    |      |
| Bromobenzene  | ND      | mg/kg | 0.0055       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-86-1   |      |
| Bromochloromethane  | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 74-97-5    |      |
| Bromodichloromethane  | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-27-4    |      |
| Bromoform   | ND      | mg/kg | 0.0055       | 0.0025 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-25-2    |      |
| Bromomethane  | ND      | mg/kg | 0.011        | 0.0028 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND      | mg/kg | 0.11         | 0.0032 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 78-93-3    |      |
| n-Butylbenzene  | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 104-51-8   |      |
| sec-Butylbenzene  | ND      | mg/kg | 0.0055       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 135-98-8   | IK   |
| tert-Butylbenzene   | ND      | mg/kg | 0.0055       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 98-06-6    |      |
| Carbon tetrachloride  | ND      | mg/kg | 0.0055       | 0.0029 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 56-23-5    |      |
| Chlorobenzene   | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-90-7   |      |
| Chloroethane  | ND      | mg/kg | 0.011        | 0.0026 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-00-3    |      |
| Chloroform  | ND      | mg/kg | 0.0055       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 67-66-3    |      |
| Chloromethane   | ND      | mg/kg | 0.011        | 0.0026 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 74-87-3    |      |
| 2-Chlorotoluene   | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 95-49-8    |      |
| 4-Chlorotoluene   | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                                   | ND      | mg/kg | 0.0055       | 0.0040 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 96-12-8    |      |
| Dibromochloromethane  | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                       | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 106-93-4   |      |
| Dibromomethane  | ND      | mg/kg | 0.0055       | 0.0028 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND      | mg/kg | 0.0055       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 106-46-7   |      |
| Dichlorodifluoromethane                                       | ND      | mg/kg | 0.011        | 0.0040 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-71-8    | L1   |
| 1,1-Dichloroethane  | ND      | mg/kg | 0.0055       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND      | mg/kg | 0.0055       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-35-4    | IK   |
| cis-1,2-Dichloroethene  | ND      | mg/kg | 0.0055       | 0.0015 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                      | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND      | mg/kg | 0.0055       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 563-58-6   |      |
| cis-1,3-Dichloropropene                                       | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                     | ND      | mg/kg | 0.0055       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 10061-02-6 |      |
| Diisopropyl ether   | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-20-3   |      |
| Ethylbenzene  | ND      | mg/kg | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                      | ND      | mg/kg | 0.0055       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 87-68-3    |      |
| 2-Hexanone  | ND      | mg/kg | 0.055        | 0.0043 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                     | ND      | mg/kg | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 98-82-8    |      |
| p-Isopropyltoluene  | ND      | mg/kg | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 99-87-6    |      |
| Methylene Chloride  | ND      | mg/kg | 0.022        | 0.0033 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                                   | ND      | mg/kg | 0.055        | 0.0041 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-10-1   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434654

**Sample: 5-11**      **Lab ID: 92434654011**      Collected: 06/25/19 16:15      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                           | Results     | Units   | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------|-------------|---|--------------|--------|----|----------------|----------------|-------------|------|
| <b>8260D/5035A Volatile Organics</b> |             | Analytical Method: EPA 8260D    Preparation Method: EPA 5035A           |              |        |    |                |                |             |      |
| Methyl-tert-butyl ether              | ND          | mg/kg   | 0.0055       | 0.0017 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 1634-04-4   |      |
| Naphthalene                          | ND          | mg/kg   | 0.0055       | 0.0013 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 91-20-3     |      |
| n-Propylbenzene                      | ND          | mg/kg   | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 103-65-1    |      |
| Styrene                              | ND          | mg/kg   | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane            | ND          | mg/kg   | 0.0055       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane            | ND          | mg/kg   | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 79-34-5     |      |
| Tetrachloroethene                    | ND          | mg/kg   | 0.0055       | 0.0019 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 127-18-4    |      |
| Toluene                              | ND          | mg/kg   | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene               | ND          | mg/kg   | 0.0055       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene               | ND          | mg/kg   | 0.0055       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 120-82-1    |      |
| 1,1,1-Trichloroethane                | ND          | mg/kg   | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 71-55-6     |      |
| 1,1,2-Trichloroethane                | ND          | mg/kg   | 0.0055       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 79-00-5     |      |
| Trichloroethene                      | ND          | mg/kg   | 0.0055       | 0.0023 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 79-01-6     |      |
| Trichlorofluoromethane               | ND          | mg/kg   | 0.0055       | 0.0024 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-69-4     |      |
| 1,2,3-Trichloropropane               | ND          | mg/kg   | 0.0055       | 0.0018 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene               | ND          | mg/kg   | 0.0055       | 0.0022 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene               | ND          | mg/kg   | 0.0055       | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-67-8    |      |
| Vinyl acetate                        | ND          | mg/kg   | 0.055        | 0.0097 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 108-05-4    |      |
| Vinyl chloride                       | ND          | mg/kg   | 0.011        | 0.0020 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 75-01-4     |      |
| Xylene (Total)                       | ND          | mg/kg   | 0.011        | 0.0040 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 1330-20-7   |      |
| m&p-Xylene                           | ND          | mg/kg   | 0.011        | 0.0040 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 179601-23-1 |      |
| o-Xylene                             | ND          | mg/kg   | 0.0055       | 0.0021 | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 95-47-6     |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| Toluene-d8 (S)                       | 97          | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)             | 101         | %   | 70-130       |        | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)            | 105         | %   | 70-132       |        | 1  | 07/01/19 13:49 | 07/02/19 01:39 | 17060-07-0  |      |
| <b>8260D MSV SIM Soil</b>            |             | Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod. |              |        |    |                |                |             |      |
| 1,4-Dioxane (p-Dioxane)              | ND          | mg/kg   | 0.010        | 0.0031 | 1  | 07/03/19 12:46 | 07/03/19 18:30 | 123-91-1    |      |
| <b>Surrogates</b>                    |             |   |              |        |    |                |                |             |      |
| 1,2-Dichloroethane-d4 (S)            | 98          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 18:30 | 17060-07-0  |      |
| Toluene-d8 (S)                       | 99          | %   | 50-150       |        | 1  | 07/03/19 12:46 | 07/03/19 18:30 | 2037-26-5   |      |
| <b>Percent Moisture</b>              |             | Analytical Method: ASTM D2974-87  |              |        |    |                |                |             |      |
| Percent Moisture                     | <b>23.2</b> | %   | 0.10         | 0.10   | 1  |                | 06/26/19 17:30 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434654

QC Batch: 484191 Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics  
Associated Lab Samples: 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009, 92434654010, 92434654011

METHOD BLANK: 2616517 Matrix: Solid  
Associated Lab Samples: 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009, 92434654010, 92434654011

| Parameter                   | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|--------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | mg/kg | ND           | 0.0050          | 0.0021 | 07/01/19 20:31 |            |
| 1,1,1-Trichloroethane       | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| 1,1,2,2-Tetrachloroethane   | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| 1,1,2-Trichloroethane       | mg/kg | ND           | 0.0050          | 0.0021 | 07/01/19 20:31 |            |
| 1,1-Dichloroethane          | mg/kg | ND           | 0.0050          | 0.0015 | 07/01/19 20:31 |            |
| 1,1-Dichloroethene          | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 | IK         |
| 1,1-Dichloropropene         | mg/kg | ND           | 0.0050          | 0.0015 | 07/01/19 20:31 |            |
| 1,2,3-Trichlorobenzene      | mg/kg | ND           | 0.0050          | 0.0022 | 07/01/19 20:31 |            |
| 1,2,3-Trichloropropane      | mg/kg | ND           | 0.0050          | 0.0016 | 07/01/19 20:31 |            |
| 1,2,4-Trichlorobenzene      | mg/kg | ND           | 0.0050          | 0.0016 | 07/01/19 20:31 |            |
| 1,2,4-Trimethylbenzene      | mg/kg | ND           | 0.0050          | 0.0020 | 07/01/19 20:31 |            |
| 1,2-Dibromo-3-chloropropane | mg/kg | ND           | 0.0050          | 0.0036 | 07/01/19 20:31 |            |
| 1,2-Dibromoethane (EDB)     | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| 1,2-Dichlorobenzene         | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| 1,2-Dichloroethane          | mg/kg | ND           | 0.0050          | 0.0022 | 07/01/19 20:31 |            |
| 1,2-Dichloropropane         | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| 1,3,5-Trimethylbenzene      | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| 1,3-Dichlorobenzene         | mg/kg | ND           | 0.0050          | 0.0020 | 07/01/19 20:31 |            |
| 1,3-Dichloropropane         | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| 1,4-Dichlorobenzene         | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| 2,2-Dichloropropane         | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| 2-Butanone (MEK)            | mg/kg | ND           | 0.10            | 0.0029 | 07/01/19 20:31 |            |
| 2-Chlorotoluene             | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| 2-Hexanone                  | mg/kg | ND           | 0.050           | 0.0039 | 07/01/19 20:31 |            |
| 4-Chlorotoluene             | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | ND           | 0.050           | 0.0037 | 07/01/19 20:31 |            |
| Acetone                     | mg/kg | ND           | 0.10            | 0.010  | 07/01/19 20:31 |            |
| Benzene                     | mg/kg | ND           | 0.0050          | 0.0016 | 07/01/19 20:31 |            |
| Bromobenzene                | mg/kg | ND           | 0.0050          | 0.0020 | 07/01/19 20:31 |            |
| Bromochloromethane          | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| Bromodichloromethane        | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| Bromoform                   | mg/kg | ND           | 0.0050          | 0.0023 | 07/01/19 20:31 |            |
| Bromomethane                | mg/kg | ND           | 0.010           | 0.0025 | 07/01/19 20:31 |            |
| Carbon tetrachloride        | mg/kg | ND           | 0.0050          | 0.0026 | 07/01/19 20:31 |            |
| Chlorobenzene               | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| Chloroethane                | mg/kg | ND           | 0.010           | 0.0024 | 07/01/19 20:31 |            |
| Chloroform                  | mg/kg | ND           | 0.0050          | 0.0016 | 07/01/19 20:31 |            |
| Chloromethane               | mg/kg | ND           | 0.010           | 0.0024 | 07/01/19 20:31 |            |
| cis-1,2-Dichloroethene      | mg/kg | ND           | 0.0050          | 0.0014 | 07/01/19 20:31 |            |
| cis-1,3-Dichloropropene     | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434654

METHOD BLANK: 2616517 Matrix: Solid  
Associated Lab Samples: 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009, 92434654010, 92434654011

| Parameter                 | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|--------|----------------|------------|
| Dibromochloromethane      | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| Dibromomethane            | mg/kg | ND           | 0.0050          | 0.0025 | 07/01/19 20:31 |            |
| Dichlorodifluoromethane   | mg/kg | ND           | 0.010           | 0.0036 | 07/01/19 20:31 |            |
| Diisopropyl ether         | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| Ethylbenzene              | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| Hexachloro-1,3-butadiene  | mg/kg | ND           | 0.0050          | 0.0020 | 07/01/19 20:31 |            |
| Isopropylbenzene (Cumene) | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| m&p-Xylene                | mg/kg | ND           | 0.010           | 0.0036 | 07/01/19 20:31 |            |
| Methyl-tert-butyl ether   | mg/kg | ND           | 0.0050          | 0.0015 | 07/01/19 20:31 |            |
| Methylene Chloride        | mg/kg | ND           | 0.020           | 0.0030 | 07/01/19 20:31 |            |
| n-Butylbenzene            | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| n-Propylbenzene           | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| Naphthalene               | mg/kg | ND           | 0.0050          | 0.0012 | 07/01/19 20:31 |            |
| o-Xylene                  | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| p-Isopropyltoluene        | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| sec-Butylbenzene          | mg/kg | ND           | 0.0050          | 0.0016 | 07/01/19 20:31 | IK         |
| Styrene                   | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| tert-Butylbenzene         | mg/kg | ND           | 0.0050          | 0.0020 | 07/01/19 20:31 |            |
| Tetrachloroethene         | mg/kg | ND           | 0.0050          | 0.0017 | 07/01/19 20:31 |            |
| Toluene                   | mg/kg | ND           | 0.0050          | 0.0018 | 07/01/19 20:31 |            |
| trans-1,2-Dichloroethene  | mg/kg | ND           | 0.0050          | 0.0019 | 07/01/19 20:31 |            |
| trans-1,3-Dichloropropene | mg/kg | ND           | 0.0050          | 0.0015 | 07/01/19 20:31 |            |
| Trichloroethene           | mg/kg | ND           | 0.0050          | 0.0021 | 07/01/19 20:31 |            |
| Trichlorofluoromethane    | mg/kg | ND           | 0.0050          | 0.0022 | 07/01/19 20:31 |            |
| Vinyl acetate             | mg/kg | ND           | 0.050           | 0.0088 | 07/01/19 20:31 |            |
| Vinyl chloride            | mg/kg | ND           | 0.010           | 0.0018 | 07/01/19 20:31 |            |
| Xylene (Total)            | mg/kg | ND           | 0.010           | 0.0036 | 07/01/19 20:31 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 70-132          |        | 07/01/19 20:31 |            |
| 4-Bromofluorobenzene (S)  | %     | 101          | 70-130          |        | 07/01/19 20:31 |            |
| Toluene-d8 (S)            | %     | 96           | 70-130          |        | 07/01/19 20:31 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2616518

| Parameter                 | Units | 2616518     |            | 2616519     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                           |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.05        | 0.043      | 0.049       | 85        | 98           | 70-130 | 14      | 30         |
| 1,1,1-Trichloroethane     | mg/kg | 0.05        | 0.045      | 0.046       | 90        | 92           | 70-130 | 2       | 30         |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.05        | 0.034      | 0.043       | 68        | 86           | 55-130 | 23      | 30         |
| 1,1,2-Trichloroethane     | mg/kg | 0.05        | 0.037      | 0.043       | 73        | 85           | 70-130 | 15      | 30         |
| 1,1-Dichloroethane        | mg/kg | 0.05        | 0.047      | 0.048       | 94        | 95           | 68-130 | 2       | 30         |
| 1,1-Dichloroethene        | mg/kg | 0.05        | 0.050      | 0.050       | 99        | 100          | 70-130 | 0       | 30 IK      |
| 1,1-Dichloropropene       | mg/kg | 0.05        | 0.046      | 0.045       | 92        | 89           | 70-130 | 2       | 30         |
| 1,2,3-Trichlorobenzene    | mg/kg | 0.05        | 0.045      | 0.051       | 91        | 101          | 70-130 | 11      | 30         |
| 1,2,3-Trichloropropane    | mg/kg | 0.05        | 0.036      | 0.045       | 71        | 91           | 70-130 | 24      | 30         |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434654

| LABORATORY CONTROL SAMPLE & LCSD: 2616518 |       | 2616519     |            |             |           |            |              |     |         |            |
|---|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,2,4-Trichlorobenzene                    | mg/kg | 0.05        | 0.046      | 0.048       | 92        | 97         | 70-130       | 5   | 30      |            |
| 1,2,4-Trimethylbenzene                    | mg/kg | 0.05        | 0.044      | 0.046       | 89        | 93         | 69-130       | 4   | 30      |            |
| 1,2-Dibromo-3-chloropropane               | mg/kg | 0.05        | 0.037      | 0.049       | 74        | 98         | 57-141       | 28  | 30      |            |
| 1,2-Dibromoethane (EDB)                   | mg/kg | 0.05        | 0.036      | 0.043       | 72        | 87         | 70-130       | 19  | 30      |            |
| 1,2-Dichlorobenzene                       | mg/kg | 0.05        | 0.043      | 0.048       | 87        | 95         | 70-130       | 9   | 30      |            |
| 1,2-Dichloroethane                        | mg/kg | 0.05        | 0.040      | 0.045       | 80        | 91         | 70-130       | 13  | 30      |            |
| 1,2-Dichloropropane                       | mg/kg | 0.05        | 0.038      | 0.042       | 77        | 84         | 70-130       | 9   | 30      |            |
| 1,3,5-Trimethylbenzene                    | mg/kg | 0.05        | 0.045      | 0.047       | 90        | 94         | 70-130       | 4   | 30      |            |
| 1,3-Dichlorobenzene                       | mg/kg | 0.05        | 0.044      | 0.047       | 88        | 94         | 70-130       | 7   | 30      |            |
| 1,3-Dichloropropane                       | mg/kg | 0.05        | 0.037      | 0.044       | 73        | 87         | 70-130       | 18  | 30      |            |
| 1,4-Dichlorobenzene                       | mg/kg | 0.05        | 0.044      | 0.048       | 88        | 96         | 70-130       | 9   | 30      |            |
| 2,2-Dichloropropane                       | mg/kg | 0.05        | 0.045      | 0.047       | 89        | 94         | 70-130       | 5   | 30      |            |
| 2-Butanone (MEK)                          | mg/kg | 0.1         | 0.071J     | 0.090J      | 71        | 90         | 60-130       |     | 30      |            |
| 2-Chlorotoluene                           | mg/kg | 0.05        | 0.044      | 0.046       | 87        | 92         | 70-130       | 6   | 30      |            |
| 2-Hexanone                                | mg/kg | 0.1         | 0.071      | 0.093       | 71        | 93         | 70-132       | 27  | 30      |            |
| 4-Chlorotoluene                           | mg/kg | 0.05        | 0.044      | 0.047       | 89        | 93         | 70-130       | 5   | 30      |            |
| 4-Methyl-2-pentanone (MIBK)               | mg/kg | 0.1         | 0.069      | 0.089       | 69        | 89         | 69-130       | 26  | 30      |            |
| Acetone                                   | mg/kg | 0.1         | 0.076J     | 0.11        | 76        | 105        | 49-148       |     | 30      |            |
| Benzene                                   | mg/kg | 0.05        | 0.043      | 0.045       | 86        | 90         | 70-130       | 5   | 30      |            |
| Bromobenzene                              | mg/kg | 0.05        | 0.043      | 0.047       | 86        | 95         | 70-130       | 10  | 30      |            |
| Bromochloromethane                        | mg/kg | 0.05        | 0.043      | 0.045       | 86        | 90         | 70-130       | 5   | 30      |            |
| Bromodichloromethane                      | mg/kg | 0.05        | 0.042      | 0.046       | 84        | 93         | 70-130       | 10  | 30      |            |
| Bromoform                                 | mg/kg | 0.05        | 0.036      | 0.045       | 72        | 89         | 68-136       | 21  | 30      |            |
| Bromomethane                              | mg/kg | 0.05        | 0.063      | 0.058       | 126       | 116        | 60-140       | 8   | 30      |            |
| Carbon tetrachloride                      | mg/kg | 0.05        | 0.045      | 0.047       | 90        | 93         | 70-130       | 4   | 30      |            |
| Chlorobenzene                             | mg/kg | 0.05        | 0.043      | 0.047       | 86        | 93         | 70-130       | 8   | 30      |            |
| Chloroethane                              | mg/kg | 0.05        | 0.056      | 0.054       | 112       | 108        | 51-147       | 4   | 30      |            |
| Chloroform                                | mg/kg | 0.05        | 0.043      | 0.048       | 87        | 95         | 70-130       | 10  | 30      |            |
| Chloromethane                             | mg/kg | 0.05        | 0.056      | 0.056       | 112       | 113        | 48-130       | 1   | 30      |            |
| cis-1,2-Dichloroethene                    | mg/kg | 0.05        | 0.045      | 0.047       | 89        | 95         | 70-130       | 6   | 30      |            |
| cis-1,3-Dichloropropene                   | mg/kg | 0.05        | 0.038      | 0.043       | 76        | 86         | 70-130       | 12  | 30      |            |
| Dibromochloromethane                      | mg/kg | 0.05        | 0.036      | 0.043       | 73        | 85         | 70-130       | 16  | 30      |            |
| Dibromomethane                            | mg/kg | 0.05        | 0.037      | 0.042       | 74        | 85         | 70-130       | 13  | 30      |            |
| Dichlorodifluoromethane                   | mg/kg | 0.05        | 0.071      | 0.072       | 142       | 145        | 49-130       | 2   | 30 L1   |            |
| Diisopropyl ether                         | mg/kg | 0.05        | 0.040      | 0.043       | 79        | 86         | 66-130       | 8   | 30      |            |
| Ethylbenzene                              | mg/kg | 0.05        | 0.046      | 0.048       | 91        | 96         | 70-130       | 5   | 30      |            |
| Hexachloro-1,3-butadiene                  | mg/kg | 0.05        | 0.046      | 0.047       | 93        | 93         | 70-130       | 1   | 30      |            |
| Isopropylbenzene (Cumene)                 | mg/kg | 0.05        | 0.045      | 0.047       | 90        | 94         | 70-130       | 5   | 30      |            |
| m&p-Xylene                                | mg/kg | 0.1         | 0.087      | 0.092       | 87        | 92         | 70-130       | 5   | 30      |            |
| Methyl-tert-butyl ether                   | mg/kg | 0.05        | 0.041      | 0.048       | 82        | 96         | 70-130       | 15  | 30      |            |
| Methylene Chloride                        | mg/kg | 0.05        | 0.046      | 0.053       | 92        | 106        | 50-137       | 14  | 30      |            |
| n-Butylbenzene                            | mg/kg | 0.05        | 0.049      | 0.049       | 97        | 98         | 70-130       | 1   | 30      |            |
| n-Propylbenzene                           | mg/kg | 0.05        | 0.048      | 0.050       | 97        | 100        | 70-130       | 3   | 30      |            |
| Naphthalene                               | mg/kg | 0.05        | 0.039      | 0.049       | 79        | 97         | 70-131       | 21  | 30      |            |
| o-Xylene                                  | mg/kg | 0.05        | 0.045      | 0.047       | 89        | 95         | 70-130       | 6   | 30      |            |
| p-Isopropyltoluene                        | mg/kg | 0.05        | 0.047      | 0.047       | 94        | 95         | 70-130       | 1   | 30      |            |
| sec-Butylbenzene                          | mg/kg | 0.05        | 0.048      | 0.050       | 96        | 101        | 70-130       | 5   | 30 IK   |            |

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434654

| Parameter                 | Units | 2616518     |            | 2616519     |           |            | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
|                           |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec |              |     |         |            |
| Styrene                   | mg/kg | 0.05        | 0.043      | 0.046       | 86        | 92         | 70-130       | 7   | 30      |            |
| tert-Butylbenzene         | mg/kg | 0.05        | 0.037      | 0.040       | 74        | 79         | 69-130       | 8   | 30      |            |
| Tetrachloroethene         | mg/kg | 0.05        | 0.048      | 0.049       | 95        | 97         | 56-130       | 2   | 30      |            |
| Toluene                   | mg/kg | 0.05        | 0.044      | 0.045       | 87        | 91         | 70-130       | 4   | 30      |            |
| trans-1,2-Dichloroethene  | mg/kg | 0.05        | 0.046      | 0.047       | 93        | 93         | 70-130       | 0   | 30      |            |
| trans-1,3-Dichloropropene | mg/kg | 0.05        | 0.037      | 0.042       | 74        | 83         | 70-130       | 11  | 30      |            |
| Trichloroethene           | mg/kg | 0.05        | 0.044      | 0.046       | 88        | 91         | 70-141       | 3   | 30      |            |
| Trichlorofluoromethane    | mg/kg | 0.05        | 0.053      | 0.051       | 107       | 101        | 67-130       | 5   | 30      |            |
| Vinyl acetate             | mg/kg | 0.1         | 0.083      | 0.087       | 83        | 87         | 10-136       | 5   | 30      |            |
| Vinyl chloride            | mg/kg | 0.05        | 0.053      | 0.053       | 105       | 105        | 67-130       | 0   | 30      |            |
| Xylene (Total)            | mg/kg | 0.15        | 0.13       | 0.14        | 88        | 93         | 70-130       | 5   | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            |             | 100       | 100        | 70-132       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |             |            |             | 98        | 100        | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |             |            |             | 100       | 100        | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project: ROW-603

Pace Project No.: 92434654

|                         |   |                       |                    |
|-------------------------|---|-----------------------|--------------------|
| QC Batch:               | 484671  | Analysis Method:      | EPA 8260D Mod.     |
| QC Batch Method:        | EPA 8260D Mod.  | Analysis Description: | 8260D MSV Soil SIM |
| Associated Lab Samples: | 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009, 92434654010, 92434654011 |                       |                    |

|                         |   |         |       |
|-------------------------|---|---------|-------|
| METHOD BLANK:           | 2618539   | Matrix: | Solid |
| Associated Lab Samples: | 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009, 92434654010, 92434654011 |         |       |

| Parameter                 | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|--------|----------------|------------|
| 1,4-Dioxane (p-Dioxane)   | mg/kg | ND           | 0.010           | 0.0030 | 07/03/19 12:13 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 87           | 50-150          |        | 07/03/19 12:13 |            |
| Toluene-d8 (S)            | %     | 96           | 50-150          |        | 07/03/19 12:13 |            |

LABORATORY CONTROL SAMPLE: 2618540

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)   | mg/kg | 0.04        | 0.041      | 103       | 50-150       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 90        | 50-150       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 50-150       |            |

MATRIX SPIKE SAMPLE: 2618542

| Parameter                 | Units | 92434654008 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)   | mg/kg | ND                 | 0.041       | 0.039     | 97       | 50-150       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 90       | 50-150       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 95       | 50-150       |            |

SAMPLE DUPLICATE: 2618541

| Parameter                 | Units | 92434654005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,4-Dioxane (p-Dioxane)   | mg/kg | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 89                 | 90         |     | 30      |            |
| Toluene-d8 (S)            | %     | 95                 | 96         |     | 30      |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434654

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|                         |   |                       |                             |
|-------------------------|---|-----------------------|-----------------------------|
| QC Batch:               | 483455  | Analysis Method:      | ASTM D2974-87               |
| QC Batch Method:        | ASTM D2974-87   | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 92434654001, 92434654002, 92434654003, 92434654004, 92434654005, 92434654006, 92434654007, 92434654008, 92434654009 |                       |                             |

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SAMPLE DUPLICATE: 2613017

| Parameter        | Units | 92434596004<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 21.2                  | 21.5          | 1   | 25         |            |

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SAMPLE DUPLICATE: 2613018

| Parameter        | Units | 92434543008<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 67.3                  | 66.9          | 1   | 25         |            |

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**QUALITY CONTROL DATA**

Project: ROW-603  
Pace Project No.: 92434654

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QC Batch: 483458    Analysis Method: ASTM D2974-87  
QC Batch Method: ASTM D2974-87                          Analysis Description: Dry Weight/Percent Moisture  
Associated Lab Samples: 92434654010, 92434654011

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SAMPLE DUPLICATE: 2613035

| Parameter        | Units | 92434372001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 52.6                  | 42.6          | 21  | 25         |            |

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SAMPLE DUPLICATE: 2613036

| Parameter        | Units | 92434664002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 60.8                  | 62.9          | 3   | 25         |            |

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92434654

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

IK The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

IS The internal standard response is below criteria. Results may be biased high.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603  
Pace Project No.: 92434654

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92434654001 | 5-1       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654002 | 5-2       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654003 | 5-3       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654004 | 5-4       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654005 | 5-5       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654006 | 5-6       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654007 | 5-7       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654008 | 5-8       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654009 | 5-9       | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654010 | 5-10      | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654011 | 5-11      | EPA 5035A       | 484191   | EPA 8260D         | 484242           |
| 92434654001 | 5-1       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654002 | 5-2       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654003 | 5-3       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654004 | 5-4       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654005 | 5-5       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654006 | 5-6       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654007 | 5-7       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654008 | 5-8       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654009 | 5-9       | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654010 | 5-10      | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654011 | 5-11      | EPA 8260D Mod.  | 484671   | EPA 8260D Mod.    | 484679           |
| 92434654001 | 5-1       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654002 | 5-2       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654003 | 5-3       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654004 | 5-4       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654005 | 5-5       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654006 | 5-6       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654007 | 5-7       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654008 | 5-8       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654009 | 5-9       | ASTM D2974-87   | 483455   |                   |                  |
| 92434654010 | 5-10      | ASTM D2974-87   | 483458   |                   |                  |
| 92434654011 | 5-11      | ASTM D2974-87   | 483458   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  **Huntersville**  Raleigh  Mechanicsville

**Sample Condition Upon Receipt**

Client Name: **H & H**

Project #: **WO# : 92434654**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Date/Initials Person Examining Contents: U86-26-19

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No  N/A

Thermometer:  IR Gun ID: 92T048    Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 21-36    Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 21-36

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Comments/Discrepancy: U86-26-19

| Chain of Custody Present?                            | Yes                                 | No                                  | N/A                                 | 1.  |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-----|
| Chain of Custody Present?                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.  |
| Samples Arrived within Hold Time?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.  |
| Short Hold Time Analysis (<72 hr.)?                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.  |
| Rush Turn Around Time Requested?                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 4.  |
| Sufficient Volume?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 5.  |
| Correct Containers Used?                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 6.  |
| -Pace Containers Used?                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |     |
| Containers Intact?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.  |
| Dissolved analysis: Samples Field Filtered?          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 8.  |
| Sample Labels Match COC?                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.  |
| -Includes Date/Time/ID/Analysis Matrix: <u>MT/SL</u> |                                     |                                     |                                     |     |
| Headspace in VOA Vials (>5-6mm)?                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 10. |
| Trip Blank Present?                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. |
| Trip Blank Custody Seals Present?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |     |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Client requested samples be split up on different reports. Client requested Parcel 5 IDW soil TCLP VOC + TCLP RCRA 8 metal samples be placed on hold. #6.

Person contacted: Alan McCreeg / David Graham    Date/Time: 6/26 - 6/27

Project Manager SCURF Review: [Signature]  
 Project Manager SRF Review: [Signature]

Date: 6/27/19  
 Date: 6/27/19

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

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

**\*\*Bottom half of box is to list number of bottle**

Project # **WO# : 92434654**  
 PM: KRG Due Date: 07/03/19  
 CLIENT: 92-Hart Hick

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|---|--------------------------------------|--|
| 1     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 2     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 3     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 4     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 5     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 6     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 7     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 8     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 9     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 10    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 11    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |
| 12    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | /                                       | /   | /                                    | /  |

26

MB 6-26-19

**pH Adjustment Log for Preserved Samples**

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

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



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

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

\*\*Bottom half of box is to list number of bottle

Project # **WO# : 92434654**

PM: KRG

Due Date: 07/03/19

CLIENT: 92-Hart Hick

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) |  | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|--|---|---|--------------------------------------|--|--|--|
| 1     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 6                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 2     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 3     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 6                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 4     |   |                                       |                                       |  |  |                                   |  |  | 2                                       |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 5     |   |                                       |                                       |  |  |                                   |  | 1  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 6     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 2                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 7     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 8     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 9     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 10    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 11    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 12    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

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





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Required Client Information:**  
 Company: Hart & Hickman  
 Address: 2923 S. Tryon Street  
 Charlotte, NC 28203  
 Email: dgraham@hartickman.com  
 Phone: (704)549-5999 Fax  
 Requested Due Date:

**Section B**  
**Required Project Information:**  
 Report To: David Graham  
 Copy To: Alan McCarthy  
 DCA/Alan McCarthy  
 Purchase Order #: HARTHICKMAN.CO.24  
 Project Name: ROW-603 Soil  
 Project #:

**Section C**  
**Invoice Information:**  
 Attention: Kevin Godwin  
 Company Name: Pace Analytical  
 Address: 59511  
 Pace Project Manager: kevin.godwin@pacealabs.com  
 Pace Profile #: 1321-18, 19

**Regulatory Agency:**  
 State / Location: NC

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / . )<br>Sample Ids must be unique | MATRIX<br>Drinking Water<br>Water<br>Waste Water<br>Product<br>Spill/soil<br>Oil<br>Wipe<br>Air<br>Other<br>Tissue | CODE<br>DW<br>WT<br>WW<br>P<br>SL<br>OL<br>WP<br>AR<br>OT<br>TS | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | Preservatives<br>H2SO4<br>HNO3<br>HCl<br>NaOH<br>Na2S2O3<br>Methanol<br>Other | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |
|--------|---|--|---|-----------|------|---------------------------|-----------------|-------------|---|---------------|-----|-----------------------------------|-------------------------|
|        |   |  |   | START     | END  |                           |                 |             |   |               |     |                                   |                         |
|        |   |  |   | DATE      | TIME | DATE                      | TIME            |             |   |               |     |                                   |                         |
| 1      | S-1   |  |   | 5/1       | 0710 | 12                        | 2               | 4           | 4   | X             | X   | X                                 |                         |
| 2      | S-2   |  |   | 6/15/16   | 0940 |                           |                 |             |   | X             | X   | X                                 |                         |
| 3      | S-3   |  |   | 6/15/16   | 1015 |                           |                 |             |   | X             | X   | X                                 |                         |
| 4      | S-4   |  |   | 6/15/16   | 1130 |                           |                 |             |   | X             | X   | X                                 |                         |
| 5      | S-5   |  |   | 6/15/16   | 1415 |                           |                 |             |   | X             | X   | X                                 |                         |
| 6      | S-6   |  |   | 6/15/16   | 1455 |                           |                 |             |   | X             | X   | X                                 |                         |
| 7      | S-7   |  |   | 6/15/16   | 1525 |                           |                 |             |   | X             | X   | X                                 |                         |
| 8      | S-8   |  |   | 6/15/16   | 1535 |                           |                 |             |   | X             | X   | X                                 |                         |
| 9      | S-9   |  |   | 6/15/16   |      |                           |                 |             |   | X             | X   | X                                 |                         |
| 10     | S-10  |  |   | 6/15/16   |      |                           |                 |             |   | X             | X   | X                                 |                         |
| 11     | S-11  |  |   | 6/15/16   |      |                           |                 |             |   | X             | X   | X                                 |                         |
| 12     | PAPER   |  |   |           |      |                           |                 |             |   | X             | X   | X                                 |                         |

| ADDITIONAL COMMENTS     | RELIQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|-------------------------|------------------------------|---------|------|---------------------------|---------|------|-------------------|
| ANALYST@HARTHICKMAN.COM | Alan McCarthy                | 6/16/16 | 0930 | Kevin Godwin              | 6/16/16 | 1500 | 36.2 F N ✓        |
| OR RESULTS              |                              |         |      |                           |         |      |                   |

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Alan McCarthy  
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed:   
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_





**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Requested Client Information:

Company: Hart & Hickman  
Address: 2923 S. Tryon Street  
Charlotte, NC 28203  
Phone: (704)549-5999  
Email: dgraham@hartickman.com  
Requested Due Date:

**Section B**  
Required Project Information:

Report To: David Graham  
Copy To: ALAN MCCREARY @ HART & HICKMAN . com  
Purchase Order #: 1321-18, 19  
Project Name: ROW-603 Soil  
Project #:

**Section C**  
Invoice Information:

Attention: KEVIN GODWIN  
Company Name: PACE PROJECT MANAGER  
Address: 59511  
Pace Project Manager: kevin.godwin@pacelabs.com  
Pace Profile #: 1321-18, 19

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / , -)<br>Sample IDs must be unique | MATRIX<br>Drinking Water<br>Water<br>Waste Water<br>Product<br>Soil/Solid<br>Oil<br>Wipe<br>Air<br>Other<br>Tissue | CODE<br>DW<br>WT<br>WW<br>P<br>SL<br>OL<br>WP<br>AK<br>OT | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |       | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |       |      |     |      |         |          | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |       |  |  |  |  |  |  |  |  |
|--------|--|--|---|---------------------------------------|-----------------------------|-----------|-------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|----------|---------------|-----|-----------------------------------|-------------------------|-------|--|--|--|--|--|--|--|--|
|        |  |  |   |                                       |                             | START     | END   |                           |                 | Unpreserved   | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol |               |     |                                   |                         | Other |  |  |  |  |  |  |  |  |
|        |  |  |   |                                       |                             | DATE      | TIME  |                           |                 | DATE          | TIME  |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 1      | PARCEL 5 DECOU WATER   |  | WT  |                                       |                             | 6/25/14   | 1:50  | 7/7                       | 13              | 1             |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 2      | SEL 6-1  |  | SL  |                                       |                             | 6/25/14   | 1:55  | 7/7                       | 13              |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 3      | SEL 6-1  |  | WT  |                                       |                             | 6/25/14   | 1:10  | 7/7                       | 7               |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 4      | 7-1 (0-2)  |  | SL  |                                       |                             | 6/26/14   | 08:10 | 7/7                       | 14              |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 5      | 7-2 (4-6)  |  | SL  |                                       |                             | 6/25/14   | 09:35 | 7/7                       | 13              |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 6      | TRIP BLANK 1   |  | WT  |                                       |                             | 6/25/14   |       | 7/7                       | 2               |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 7      |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 8      |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 9      |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 10     |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 11     |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |
| 12     |  |  |   |                                       |                             |           |       |                           |                 |               |       |      |     |      |         |          |               |     |                                   |                         |       |  |  |  |  |  |  |  |  |

| ADDITIONAL COMMENTS        |  |  | RELIQUISHED BY / AFFILIATION | DATE    | TIME  | ACCEPTED BY / AFFILIATION | DATE     | TIME  | SAMPLE CONDITIONS |
|----------------------------|--|--|------------------------------|---------|-------|---------------------------|----------|-------|-------------------|
| PLEASE PUT SEL 6-1 IN      |  |  | <i>[Signature]</i>           | 6/26/14 | 09:10 | <i>[Signature]</i>        | 08/21/19 | 09:40 |                   |
| SEPARATE REPORT WITH       |  |  | <i>[Signature]</i>           | 6/26/14 | 15:00 | <i>[Signature]</i>        | 6/26/14  | 15:00 |                   |
| S-1 THROUGH PARCEL S DECOU |  |  |                              |         |       |                           |          |       |                   |
| WATER OF SECOND REPORT     |  |  |                              |         |       |                           |          |       |                   |

| SAMPLER NAME AND SIGNATURE                  |  | DATE Signed: |
|---|--|--------------|
| PRINT Name of SAMPLER: <u>ALAN MCCREARY</u> |  |              |
| SIGNATURE of SAMPLER: <i>[Signature]</i>    |  |              |

PUT 7-1 & 7-2 IN SEPARATE REPORT WITH WATER OF 7-4 Container WATER



July 15, 2019

David Graham  
Hart & Hickman  
2923 S. Tryon Street  
Charlotte, NC 28203

RE: Project: ROW-603  
Pace Project No.: 92434683

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 26, 2019 and June 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
1(704)875-9092  
Project Manager

Enclosures

cc: Alan McCreary, Hart & Hickman



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: ROW-603  
Pace Project No.: 92434683

---

### Pace Analytical National Certification IDs

|  |  |
|--|--|
| 12065 Lebanon Road, Mt. Juliet, TN 37122 | Nevada Certification #: TN-03-2002-34                |
| Alabama Certification #: 40660           | New Hampshire Certification #: 2975                  |
| Alaska Certification 17-026              | New Jersey Certification #: TN002                    |
| Arizona Certification #: AZ0612          | New Mexico DW Certification                          |
| Arkansas Certification #: 88-0469        | New York Certification #: 11742                      |
| California Certification #: 2932         | North Carolina Aquatic Toxicity Certification #: 41  |
| Canada Certification #: 1461.01          | North Carolina Drinking Water Certification #: 21704 |
| Colorado Certification #: TN00003        | North Carolina Environmental Certificate #: 375      |
| Connecticut Certification #: PH-0197     | North Dakota Certification #: R-140                  |
| DOD Certification: #1461.01              | Ohio VAP Certification #: CL0069                     |
| EPA# TN00003                             | Oklahoma Certification #: 9915                       |
| Florida Certification #: E87487          | Oregon Certification #: TN200002                     |
| Georgia DW Certification #: 923          | Pennsylvania Certification #: 68-02979               |
| Georgia Certification: NELAP             | Rhode Island Certification #: LAO00356               |
| Idaho Certification #: TN00003           | South Carolina Certification #: 84004                |
| Illinois Certification #: 200008         | South Dakota Certification                           |
| Indiana Certification #: C-TN-01         | Tennessee DW/Chem/Micro Certification #: 2006        |
| Iowa Certification #: 364                | Texas Certification #: T 104704245-17-14             |
| Kansas Certification #: E-10277          | Texas Mold Certification #: LAB0152                  |
| Kentucky UST Certification #: 16         | USDA Soil Permit #: P330-15-00234                    |
| Kentucky Certification #: 90010          | Utah Certification #: TN00003                        |
| Louisiana Certification #: AI30792       | Virginia Certification #: VT2006                     |
| Louisiana DW Certification #: LA180010   | Vermont Dept. of Health: ID# VT-2006                 |
| Maine Certification #: TN0002            | Virginia Certification #: 460132                     |
| Maryland Certification #: 324            | Washington Certification #: C847                     |
| Massachusetts Certification #: M-TN003   | West Virginia Certification #: 233                   |
| Michigan Certification #: 9958           | Wisconsin Certification #: 9980939910                |
| Minnesota Certification #: 047-999-395   | Wyoming UST Certification #: via A2LA 2926.01        |
| Mississippi Certification #: TN00003     | A2LA-ISO 17025 Certification #: 1461.01              |
| Missouri Certification #: 340            | A2LA-ISO 17025 Certification #: 1461.02              |
| Montana Certification #: CERT0086        | AIHA-LAP/LLC EMLAP Certification #:100789            |
| Nebraska Certification #: NE-OS-15-05    |  |

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### Charlotte Certification IDs

|  |  |
|--|--|
| 9800 Kincey Ave. Ste 100, Huntersville, NC 28078     | South Carolina Certification #: 99006001 |
| Louisiana/NELAP Certification # LA170028             | Florida/NELAP Certification #: E87627    |
| North Carolina Drinking Water Certification #: 37706 | Kentucky UST Certification #: 84         |
| North Carolina Field Services Certification #: 5342  | Virginia/VELAP Certification #: 460221   |
| North Carolina Wastewater Certification #: 12        |  |

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### Asheville Certification IDs

|  |   |
|--|---|
| 2225 Riverside Drive, Asheville, NC 28804            | North Carolina Wastewater Certification #: 40 |
| Florida/NELAP Certification #: E87648                | South Carolina Certification #: 99030001      |
| Massachusetts Certification #: M-NC030               | Virginia/VELAP Certification #: 460222        |
| North Carolina Drinking Water Certification #: 37712 |   |

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92434683

| Lab ID      | Sample ID            | Matrix | Date Collected | Date Received  |
|-------------|----------------------|--------|----------------|----------------|
| 92434654012 | PARCEL 5 IDW SOIL    | Solid  | 06/25/19 16:35 | 06/26/19 09:40 |
| 92434654013 | PARCEL 5 DECON WATER | Water  | 06/25/19 16:50 | 06/26/19 09:40 |
| 92434683004 | PARCEL 7 IDW SOIL    | Solid  | 06/27/19 17:05 | 06/28/19 12:49 |
| 92434683005 | PARCEL 7 IDW WATER   | Water  | 06/27/19 17:15 | 06/28/19 12:49 |

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### SAMPLE ANALYTE COUNT

Project: ROW-603

Pace Project No.: 92434683

| Lab ID      | Sample ID            | Method         | Analysts | Analytes Reported | Laboratory |
|-------------|----------------------|----------------|----------|-------------------|------------|
| 92434654012 | PARCEL 5 IDW SOIL    | EPA 6010D      | SH1      | 7                 | PASI-A     |
|             |                      | EPA 7471B      | JMW1     | 1                 | PASI-A     |
|             |                      | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
| 92434654013 | PARCEL 5 DECON WATER | EPA 6010D      | SH1      | 7                 | PASI-A     |
|             |                      | EPA 7470A      | JMW1     | 1                 | PASI-A     |
|             |                      | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |
| 92434683004 | PARCEL 7 IDW SOIL    | EPA 8260D      | ACG      | 68                | PAN        |
|             |                      | EPA 6010D      | DS       | 7                 | PASI-A     |
|             |                      | EPA 7470A      | JMW1     | 1                 | PASI-A     |
| 92434683005 | PARCEL 7 IDW WATER   | ASTM D2974-87  | KDF      | 1                 | PASI-C     |
|             |                      | EPA 6010D      | DS       | 7                 | PASI-A     |
|             |                      | EPA 7470A      | JMW1     | 1                 | PASI-A     |
|             |                      | EPA 8260D      | CL       | 63                | PASI-C     |
|             |                      | EPA 8260D Mod. | LMB      | 3                 | PASI-C     |

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92434683

**Sample: PARCEL 5 IDW SOIL**      **Lab ID: 92434654012**      Collected: 06/25/19 16:35      Received: 06/26/19 09:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results      | Units | Report<br>Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|--------------|-------|-----------------|--------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |              |       |                 |        |    |                |                |           |      |
| Analytical Method: EPA 6010D    Preparation Method: EPA 3050B |              |       |                 |        |    |                |                |           |      |
| Arsenic   | <b>1.3</b>   | mg/kg | 1.1             | 0.53   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7440-38-2 |      |
| Barium  | <b>74.3</b>  | mg/kg | 0.53            | 0.27   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7440-39-3 |      |
| Cadmium   | <b>0.12</b>  | mg/kg | 0.11            | 0.053  | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7440-43-9 |      |
| Chromium  | <b>19.0</b>  | mg/kg | 0.53            | 0.27   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7440-47-3 |      |
| Lead  | <b>16.0</b>  | mg/kg | 0.53            | 0.27   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7439-92-1 |      |
| Selenium  | <b>1.1</b>   | mg/kg | 1.1             | 0.53   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7782-49-2 |      |
| Silver  | ND           | mg/kg | 0.53            | 0.27   | 1  | 07/02/19 10:31 | 07/02/19 23:30 | 7440-22-4 |      |
| <b>7471 Mercury</b>   |              |       |                 |        |    |                |                |           |      |
| Analytical Method: EPA 7471B    Preparation Method: EPA 7471B |              |       |                 |        |    |                |                |           |      |
| Mercury   | <b>0.033</b> | mg/kg | 0.0053          | 0.0027 | 1  | 06/27/19 12:33 | 06/28/19 09:39 | 7439-97-6 |      |
| <b>Percent Moisture</b>                                       |              |       |                 |        |    |                |                |           |      |
| Analytical Method: ASTM D2974-87                              |              |       |                 |        |    |                |                |           |      |
| Percent Moisture  | <b>17.4</b>  | %     | 0.10            | 0.10   | 1  |                | 06/26/19 17:30 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92434683

**Sample: PARCEL 5 DECON WATER**    **Lab ID: 92434654013**    Collected: 06/25/19 16:50    Received: 06/26/19 09:40    Matrix: Water

| Parameters   | Results | Units | Report |      |    | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
|  |         |       | Limit  | MDL  | DF |                |                |            |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010D    Preparation Method: EPA 3010A  |         |       |        |      |    |                |                |            |      |
| Arsenic  | 6.5J    | ug/L  | 10.0   | 5.0  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7440-38-2  |      |
| Barium   | 409     | ug/L  | 5.0    | 2.5  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7440-39-3  |      |
| Cadmium  | ND      | ug/L  | 1.0    | 0.50 | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7440-43-9  |      |
| Chromium   | 166     | ug/L  | 5.0    | 2.5  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7440-47-3  |      |
| Lead   | 22.6    | ug/L  | 5.0    | 2.5  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7439-92-1  |      |
| Selenium   | ND      | ug/L  | 10.0   | 5.0  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7782-49-2  |      |
| Silver   | ND      | ug/L  | 5.0    | 2.5  | 1  | 06/27/19 01:10 | 06/27/19 14:00 | 7440-22-4  |      |
| <b>7470 Mercury</b> Analytical Method: EPA 7470A    Preparation Method: EPA 7470A  |         |       |        |      |    |                |                |            |      |
| Mercury  | 0.19J   | ug/L  | 0.20   | 0.10 | 1  | 06/27/19 13:09 | 06/28/19 10:39 | 7439-97-6  |      |
| <b>8260D MSV SIM</b> Analytical Method: EPA 8260D Mod.                             |         |       |        |      |    |                |                |            |      |
| 1,4-Dioxane (p-Dioxane)  | 382     | ug/L  | 50.0   | 28.8 | 25 |                | 06/28/19 14:41 | 123-91-1   | D3   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %     | 50-150 |      | 25 |                | 06/28/19 14:41 | 17060-07-0 |      |
| Toluene-d8 (S)   | 107     | %     | 50-150 |      | 25 |                | 06/28/19 14:41 | 2037-26-5  |      |
| <b>VOA (GC/MS) 8260D</b> Analytical Method: EPA 8260D    Preparation Method: 8260D |         |       |        |      |    |                |                |            |      |
| Acetone  | 172J    | ug/L  | 500    | 100  | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 67-64-1    | J    |
| Benzene  | ND      | ug/L  | 10.0   | 3.31 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 71-43-2    |      |
| Bromobenzene   | ND      | ug/L  | 10.0   | 3.52 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 108-86-1   |      |
| Bromochloromethane   | ND      | ug/L  | 50.0   | 5.20 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 74-97-5    |      |
| Bromodichloromethane   | ND      | ug/L  | 10.0   | 3.80 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-27-4    |      |
| Bromoform  | ND      | ug/L  | 10.0   | 4.69 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-25-2    |      |
| Bromomethane   | ND      | ug/L  | 50.0   | 8.66 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 74-83-9    |      |
| n-Butylbenzene   | ND      | ug/L  | 10.0   | 3.61 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 104-51-8   |      |
| sec-Butylbenzene   | ND      | ug/L  | 10.0   | 3.65 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 135-98-8   |      |
| tert-Butylbenzene  | ND      | ug/L  | 10.0   | 3.99 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 98-06-6    |      |
| Carbon disulfide   | ND      | ug/L  | 10.0   | 2.75 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-15-0    | L0   |
| Carbon tetrachloride   | ND      | ug/L  | 10.0   | 3.79 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 56-23-5    |      |
| Chlorobenzene  | ND      | ug/L  | 10.0   | 3.48 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 108-90-7   |      |
| Dibromochloromethane   | ND      | ug/L  | 10.0   | 3.27 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 124-48-1   |      |
| Chloroethane   | ND      | ug/L  | 50.0   | 4.53 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-00-3    |      |
| Chloroform   | ND      | ug/L  | 50.0   | 3.24 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 67-66-3    |      |
| Chloromethane  | ND      | ug/L  | 25.0   | 2.76 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 74-87-3    |      |
| 2-Chlorotoluene  | ND      | ug/L  | 10.0   | 3.75 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 95-49-8    |      |
| 4-Chlorotoluene  | ND      | ug/L  | 10.0   | 3.51 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane  | ND      | ug/L  | 50.0   | 13.3 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 96-12-8    |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 10.0   | 3.81 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 106-93-4   |      |
| Dibromomethane   | ND      | ug/L  | 10.0   | 3.46 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 74-95-3    |      |
| 1,2-Dichlorobenzene  | ND      | ug/L  | 10.0   | 3.49 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 95-50-1    |      |
| 1,3-Dichlorobenzene  | ND      | ug/L  | 10.0   | 2.20 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 541-73-1   |      |
| 1,4-Dichlorobenzene  | ND      | ug/L  | 10.0   | 2.74 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 106-46-7   |      |
| Dichlorodifluoromethane  | ND      | ug/L  | 50.0   | 5.51 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-71-8    | L0   |
| 1,1-Dichloroethane   | ND      | ug/L  | 10.0   | 2.59 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-34-3    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 10.0   | 3.61 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 107-06-2   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434683

**Sample: PARCEL 5 DECON WATER**    **Lab ID: 92434654013**    Collected: 06/25/19 16:50    Received: 06/26/19 09:40    Matrix: Water

| Parameters  | Results | Units | Report   |      |    | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|----------|------|----|----------------|----------------|------------|------|
|   |         |       | Limit    | MDL  | DF |                |                |            |      |
| <b>VOA (GC/MS) 8260D</b>                                  |         |       |          |      |    |                |                |            |      |
| Analytical Method: EPA 8260D    Preparation Method: 8260D |         |       |          |      |    |                |                |            |      |
| 1,1-Dichloroethene  | ND      | ug/L  | 10.0     | 3.98 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-35-4    | L0   |
| cis-1,2-Dichloroethene                                    | ND      | ug/L  | 10.0     | 2.60 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                  | ND      | ug/L  | 10.0     | 3.96 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 156-60-5   |      |
| 1,2-Dichloropropane                                       | ND      | ug/L  | 10.0     | 3.06 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 78-87-5    |      |
| 1,1-Dichloropropene                                       | ND      | ug/L  | 10.0     | 3.52 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 563-58-6   |      |
| 1,3-Dichloropropane                                       | ND      | ug/L  | 10.0     | 3.66 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 142-28-9   |      |
| cis-1,3-Dichloropropene                                   | ND      | ug/L  | 10.0     | 4.18 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                                 | ND      | ug/L  | 10.0     | 4.19 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 10061-02-6 |      |
| 2,2-Dichloropropane                                       | ND      | ug/L  | 10.0     | 3.21 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 594-20-7   |      |
| Ethylbenzene  | ND      | ug/L  | 10.0     | 3.84 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                                  | ND      | ug/L  | 10.0     | 2.56 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 87-68-3    |      |
| 2-Hexanone  | ND      | ug/L  | 100      | 38.2 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 591-78-6   |      |
| Isopropylbenzene (Cumene)                                 | ND      | ug/L  | 10.0     | 3.26 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 98-82-8    |      |
| p-Isopropyltoluene  | ND      | ug/L  | 10.0     | 3.50 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 99-87-6    |      |
| 2-Butanone (MEK)  | ND      | ug/L  | 100      | 39.3 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 78-93-3    |      |
| Methylene Chloride  | ND      | ug/L  | 50.0     | 10.0 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)                               | ND      | ug/L  | 100      | 21.4 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 108-10-1   |      |
| Methyl-tert-butyl ether                                   | ND      | ug/L  | 10.0     | 3.67 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 50.0     | 10.0 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 91-20-3    |      |
| n-Propylbenzene   | ND      | ug/L  | 10.0     | 3.49 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 103-65-1   |      |
| Styrene   | ND      | ug/L  | 10.0     | 3.07 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                                 | ND      | ug/L  | 10.0     | 3.85 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane                                 | ND      | ug/L  | 10.0     | 1.30 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 79-34-5    |      |
| 1,1,2-Trichlorotrifluoroethane                            | ND      | ug/L  | 10.0     | 3.03 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 76-13-1    |      |
| Tetrachloroethene   | ND      | ug/L  | 10.0     | 3.72 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 127-18-4   |      |
| Toluene   | ND      | ug/L  | 10.0     | 4.12 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                                    | ND      | ug/L  | 10.0     | 2.30 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                                    | ND      | ug/L  | 10.0     | 3.55 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 120-82-1   |      |
| 1,1,1-Trichloroethane                                     | ND      | ug/L  | 10.0     | 3.19 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 71-55-6    |      |
| 1,1,2-Trichloroethane                                     | ND      | ug/L  | 10.0     | 3.83 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 79-00-5    |      |
| Trichloroethene   | ND      | ug/L  | 10.0     | 3.98 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 79-01-6    |      |
| Trichlorofluoromethane                                    | ND      | ug/L  | 50.0     | 12.0 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-69-4    |      |
| 1,2,3-Trichloropropane                                    | ND      | ug/L  | 25.0     | 8.07 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene                                    | ND      | ug/L  | 10.0     | 3.73 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                                    | ND      | ug/L  | 10.0     | 3.87 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 108-67-8   |      |
| Vinyl chloride  | ND      | ug/L  | 10.0     | 2.59 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 75-01-4    |      |
| Xylene (Total)  | ND      | ug/L  | 30.0     | 10.6 | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |          |      |    |                |                |            |      |
| Toluene-d8 (S)  | 103     | %     | 80.0-120 |      | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)                                  | 109     | %     | 77.0-126 |      | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)                                 | 113     | %     | 70.0-130 |      | 10 | 07/07/19 18:02 | 07/07/19 18:02 | 17060-07-0 |      |

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### ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92434683

**Sample: PARCEL 7 IDW SOIL**      **Lab ID: 92434683004**      Collected: 06/27/19 17:05      Received: 06/28/19 12:49      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results     | Units | Report<br>Limit | MDL     | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|-------------|-------|-----------------|---------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP, TCLP</b>   |             |       |                 |         |    |                |                |           |      |
| Analytical Method: EPA 6010D    Preparation Method: EPA 3010A                     |             |       |                 |         |    |                |                |           |      |
| Leachate Method/Date: EPA 1311; 07/12/19 22:12    Initial pH: 6.02; Final pH: 4.5 |             |       |                 |         |    |                |                |           |      |
| Arsenic   | ND          | mg/L  | 0.050           | 0.014   | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7440-38-2 |      |
| Barium  | <b>0.57</b> | mg/L  | 0.25            | 0.0050  | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7440-39-3 |      |
| Cadmium   | ND          | mg/L  | 0.0050          | 0.0025  | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7440-43-9 |      |
| Chromium  | ND          | mg/L  | 0.050           | 0.0020  | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7440-47-3 |      |
| Lead  | ND          | mg/L  | 0.025           | 0.020   | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7439-92-1 |      |
| Selenium  | ND          | mg/L  | 0.10            | 0.019   | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7782-49-2 |      |
| Silver  | ND          | mg/L  | 0.025           | 0.00050 | 1  | 07/14/19 13:51 | 07/14/19 23:20 | 7440-22-4 |      |
| <b>7470 Mercury, TCLP</b>   |             |       |                 |         |    |                |                |           |      |
| Analytical Method: EPA 7470A    Preparation Method: EPA 7470A                     |             |       |                 |         |    |                |                |           |      |
| Leachate Method/Date: EPA 1311; 07/12/19 22:12    Initial pH: 6.02; Final pH: 4.5 |             |       |                 |         |    |                |                |           |      |
| Mercury   | ND          | mg/L  | 0.00020         | 0.00010 | 1  | 07/15/19 08:31 | 07/15/19 12:18 | 7439-97-6 | R1   |
| <b>Percent Moisture</b>   |             |       |                 |         |    |                |                |           |      |
| Analytical Method: ASTM D2974-87  |             |       |                 |         |    |                |                |           |      |
| Percent Moisture  | <b>21.7</b> | %     | 0.10            | 0.10    | 1  |                | 06/29/19 14:07 |           |      |

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434683

**Sample: PARCEL 7 IDW WATER**      **Lab ID: 92434683005**      Collected: 06/27/19 17:15      Received: 06/28/19 12:49      Matrix: Water

| Parameters  | Results      | Units | Report |      |    | Prepared       | Analyzed       | CAS No.    | Qual |
|---|--------------|-------|--------|------|----|----------------|----------------|------------|------|
|   |              |       | Limit  | MDL  | DF |                |                |            |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3010A |              |       |        |      |    |                |                |            |      |
| Arsenic   | ND           | ug/L  | 10.0   | 5.0  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7440-38-2  |      |
| Barium  | <b>317</b>   | ug/L  | 5.0    | 2.5  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7440-39-3  |      |
| Cadmium   | ND           | ug/L  | 1.0    | 0.50 | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7440-43-9  |      |
| Chromium  | <b>53.8</b>  | ug/L  | 5.0    | 2.5  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7440-47-3  |      |
| Lead  | <b>9.8</b>   | ug/L  | 5.0    | 2.5  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7439-92-1  |      |
| Selenium  | ND           | ug/L  | 10.0   | 5.0  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7782-49-2  |      |
| Silver  | ND           | ug/L  | 5.0    | 2.5  | 1  | 07/13/19 01:27 | 07/13/19 17:41 | 7440-22-4  |      |
| <b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A |              |       |        |      |    |                |                |            |      |
| Mercury   | ND           | ug/L  | 0.20   | 0.10 | 1  | 07/15/19 08:31 | 07/15/19 11:11 | 7439-97-6  |      |
| <b>8260D MSV Low Level</b> Analytical Method: EPA 8260D                             |              |       |        |      |    |                |                |            |      |
| Acetone   | <b>18.8J</b> | ug/L  | 25.0   | 6.2  | 1  |                | 07/11/19 05:21 | 67-64-1    |      |
| Benzene   | ND           | ug/L  | 1.0    | 0.15 | 1  |                | 07/11/19 05:21 | 71-43-2    |      |
| Bromobenzene  | ND           | ug/L  | 1.0    | 0.22 | 1  |                | 07/11/19 05:21 | 108-86-1   |      |
| Bromochloromethane  | ND           | ug/L  | 1.0    | 0.34 | 1  |                | 07/11/19 05:21 | 74-97-5    |      |
| Bromodichloromethane  | ND           | ug/L  | 1.0    | 0.26 | 1  |                | 07/11/19 05:21 | 75-27-4    |      |
| Bromoform   | ND           | ug/L  | 1.0    | 0.62 | 1  |                | 07/11/19 05:21 | 75-25-2    |      |
| Bromomethane  | ND           | ug/L  | 2.0    | 0.62 | 1  |                | 07/11/19 05:21 | 74-83-9    |      |
| 2-Butanone (MEK)  | ND           | ug/L  | 5.0    | 3.3  | 1  |                | 07/11/19 05:21 | 78-93-3    |      |
| Carbon tetrachloride  | ND           | ug/L  | 1.0    | 0.22 | 1  |                | 07/11/19 05:21 | 56-23-5    |      |
| Chlorobenzene   | ND           | ug/L  | 1.0    | 0.23 | 1  |                | 07/11/19 05:21 | 108-90-7   |      |
| Chloroethane  | ND           | ug/L  | 1.0    | 0.49 | 1  |                | 07/11/19 05:21 | 75-00-3    |      |
| Chloroform  | ND           | ug/L  | 5.0    | 2.3  | 1  |                | 07/11/19 05:21 | 67-66-3    |      |
| Chloromethane   | ND           | ug/L  | 1.0    | 0.39 | 1  |                | 07/11/19 05:21 | 74-87-3    |      |
| 2-Chlorotoluene   | ND           | ug/L  | 1.0    | 0.20 | 1  |                | 07/11/19 05:21 | 95-49-8    |      |
| 4-Chlorotoluene   | ND           | ug/L  | 1.0    | 0.20 | 1  |                | 07/11/19 05:21 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane   | ND           | ug/L  | 5.0    | 0.26 | 1  |                | 07/11/19 05:21 | 96-12-8    |      |
| Dibromochloromethane  | ND           | ug/L  | 1.0    | 0.41 | 1  |                | 07/11/19 05:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)   | ND           | ug/L  | 1.0    | 0.26 | 1  |                | 07/11/19 05:21 | 106-93-4   |      |
| Dibromomethane  | ND           | ug/L  | 1.0    | 0.46 | 1  |                | 07/11/19 05:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene   | ND           | ug/L  | 1.0    | 0.29 | 1  |                | 07/11/19 05:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene   | ND           | ug/L  | 1.0    | 0.22 | 1  |                | 07/11/19 05:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene   | ND           | ug/L  | 1.0    | 0.26 | 1  |                | 07/11/19 05:21 | 106-46-7   |      |
| Dichlorodifluoromethane   | ND           | ug/L  | 1.0    | 0.23 | 1  |                | 07/11/19 05:21 | 75-71-8    |      |
| 1,1-Dichloroethane  | ND           | ug/L  | 1.0    | 0.27 | 1  |                | 07/11/19 05:21 | 75-34-3    |      |
| 1,2-Dichloroethane  | ND           | ug/L  | 1.0    | 0.34 | 1  |                | 07/11/19 05:21 | 107-06-2   |      |
| 1,1-Dichloroethene  | ND           | ug/L  | 1.0    | 0.24 | 1  |                | 07/11/19 05:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene  | ND           | ug/L  | 1.0    | 0.29 | 1  |                | 07/11/19 05:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene  | ND           | ug/L  | 1.0    | 0.25 | 1  |                | 07/11/19 05:21 | 156-60-5   |      |
| 1,2-Dichloropropane   | ND           | ug/L  | 1.0    | 0.19 | 1  |                | 07/11/19 05:21 | 78-87-5    |      |
| 1,3-Dichloropropane   | ND           | ug/L  | 1.0    | 0.16 | 1  |                | 07/11/19 05:21 | 142-28-9   |      |
| 2,2-Dichloropropane   | ND           | ug/L  | 1.0    | 0.27 | 1  |                | 07/11/19 05:21 | 594-20-7   |      |
| 1,1-Dichloropropene   | ND           | ug/L  | 1.0    | 0.21 | 1  |                | 07/11/19 05:21 | 563-58-6   |      |
| cis-1,3-Dichloropropene   | ND           | ug/L  | 1.0    | 0.30 | 1  |                | 07/11/19 05:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND           | ug/L  | 1.0    | 0.31 | 1  |                | 07/11/19 05:21 | 10061-02-6 |      |

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92434683

**Sample: PARCEL 7 IDW WATER**      **Lab ID: 92434683005**      Collected: 06/27/19 17:15      Received: 06/28/19 12:49      Matrix: Water

| Parameters                  | Results | Units                             | Report Limit | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-----------------------------------|--------------|------|----|----------|----------------|-------------|------|
| <b>8260D MSV Low Level</b>  |         | Analytical Method: EPA 8260D      |              |      |    |          |                |             |      |
| Diisopropyl ether           | ND      | ug/L                              | 1.0          | 0.22 | 1  |          | 07/11/19 05:21 | 108-20-3    |      |
| Ethylbenzene                | ND      | ug/L                              | 1.0          | 0.26 | 1  |          | 07/11/19 05:21 | 100-41-4    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/L                              | 1.0          | 0.44 | 1  |          | 07/11/19 05:21 | 87-68-3     |      |
| 2-Hexanone                  | ND      | ug/L                              | 5.0          | 0.57 | 1  |          | 07/11/19 05:21 | 591-78-6    |      |
| p-Isopropyltoluene          | ND      | ug/L                              | 1.0          | 0.21 | 1  |          | 07/11/19 05:21 | 99-87-6     |      |
| Methylene Chloride          | ND      | ug/L                              | 5.0          | 3.7  | 1  |          | 07/11/19 05:21 | 75-09-2     |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                              | 5.0          | 4.5  | 1  |          | 07/11/19 05:21 | 108-10-1    |      |
| Methyl-tert-butyl ether     | ND      | ug/L                              | 1.0          | 0.28 | 1  |          | 07/11/19 05:21 | 1634-04-4   |      |
| Naphthalene                 | ND      | ug/L                              | 1.0          | 0.35 | 1  |          | 07/11/19 05:21 | 91-20-3     |      |
| Styrene                     | ND      | ug/L                              | 1.0          | 0.27 | 1  |          | 07/11/19 05:21 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/L                              | 1.0          | 0.34 | 1  |          | 07/11/19 05:21 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                              | 1.0          | 0.22 | 1  |          | 07/11/19 05:21 | 79-34-5     |      |
| Tetrachloroethene           | ND      | ug/L                              | 1.0          | 0.16 | 1  |          | 07/11/19 05:21 | 127-18-4    |      |
| Toluene                     | ND      | ug/L                              | 1.0          | 0.24 | 1  |          | 07/11/19 05:21 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/L                              | 1.0          | 0.34 | 1  |          | 07/11/19 05:21 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/L                              | 1.0          | 0.22 | 1  |          | 07/11/19 05:21 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                              | 1.0          | 0.18 | 1  |          | 07/11/19 05:21 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                              | 1.0          | 0.24 | 1  |          | 07/11/19 05:21 | 79-00-5     |      |
| Trichloroethene             | ND      | ug/L                              | 1.0          | 0.22 | 1  |          | 07/11/19 05:21 | 79-01-6     |      |
| Trichlorofluoromethane      | ND      | ug/L                              | 1.0          | 0.31 | 1  |          | 07/11/19 05:21 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | ND      | ug/L                              | 1.0          | 0.35 | 1  |          | 07/11/19 05:21 | 96-18-4     |      |
| Vinyl acetate               | ND      | ug/L                              | 2.0          | 1.4  | 1  |          | 07/11/19 05:21 | 108-05-4    |      |
| Vinyl chloride              | ND      | ug/L                              | 1.0          | 0.24 | 1  |          | 07/11/19 05:21 | 75-01-4     |      |
| Xylene (Total)              | ND      | ug/L                              | 1.0          | 0.63 | 1  |          | 07/11/19 05:21 | 1330-20-7   |      |
| m&p-Xylene                  | ND      | ug/L                              | 2.0          | 0.41 | 1  |          | 07/11/19 05:21 | 179601-23-1 |      |
| o-Xylene                    | ND      | ug/L                              | 1.0          | 0.22 | 1  |          | 07/11/19 05:21 | 95-47-6     |      |
| <b>Surrogates</b>           |         |                                   |              |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 100     | %                                 | 70-130       |      | 1  |          | 07/11/19 05:21 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 100     | %                                 | 70-130       |      | 1  |          | 07/11/19 05:21 | 17060-07-0  |      |
| Toluene-d8 (S)              | 101     | %                                 | 70-130       |      | 1  |          | 07/11/19 05:21 | 2037-26-5   |      |
| <b>8260D MSV SIM</b>        |         | Analytical Method: EPA 8260D Mod. |              |      |    |          |                |             |      |
| 1,4-Dioxane (p-Dioxane)     | ND      | ug/L                              | 2.0          | 1.2  | 1  |          | 07/11/19 15:50 | 123-91-1    |      |
| <b>Surrogates</b>           |         |                                   |              |      |    |          |                |             |      |
| 1,2-Dichloroethane-d4 (S)   | 103     | %                                 | 50-150       |      | 1  |          | 07/11/19 15:50 | 17060-07-0  |      |
| Toluene-d8 (S)              | 107     | %                                 | 50-150       |      | 1  |          | 07/11/19 15:50 | 2037-26-5   |      |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 486320                      Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A            Analysis Description: 7470 Mercury TCLP  
Associated Lab Samples: 92434683004

METHOD BLANK: 2625550                      Matrix: Water  
Associated Lab Samples: 92434683004

| Parameter | Units | Blank Result | Reporting Limit | MDL     | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury   | mg/L  | ND           | 0.00020         | 0.00010 | 07/15/19 12:08 |            |

METHOD BLANK: 2625551                      Matrix: Water  
Associated Lab Samples: 92434683004

| Parameter | Units | Blank Result | Reporting Limit | MDL     | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury   | mg/L  | ND           | 0.00020         | 0.00010 | 07/15/19 12:13 |            |

LABORATORY CONTROL SAMPLE: 2626421

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | mg/L  | 0.0025      | 0.0029     | 117       | 80-120       |            |

LABORATORY CONTROL SAMPLE: 2626422

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | mg/L  | 0.0025      | 0.0026     | 104       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626423                      2626424

| Parameter | Units | 92434683004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury   | mg/L  | ND                 | 0.0025         | 0.0025          | 0.0029    | 0.0019     | 115      | 77        | 75-125       | 39  | 20      | R1   |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 483522 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Associated Lab Samples: 92434654013

METHOD BLANK: 2613306 Matrix: Water  
Associated Lab Samples: 92434654013

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/L  | ND           | 0.20            | 0.10 | 06/28/19 10:27 |            |

LABORATORY CONTROL SAMPLE: 2613307

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 2.5         | 2.2        | 89        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2613308 2613309

| Parameter | Units | 2613308            |                | 2613309         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
|           |       | 92434257001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |       |
| Mercury   | ug/L  | ND                 | 2.5            | 2.5             | 1.1       | 1.1      | 42        | 42           | 75-125 | 1       | 25 M1 |

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**QUALITY CONTROL DATA**

Project: ROW-603

Pace Project No.: 92434683

QC Batch: 486137

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 92434683005

METHOD BLANK: 2625599

Matrix: Water

Associated Lab Samples: 92434683005

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/L  | ND           | 0.20            | 0.10 | 07/15/19 11:07 |            |

LABORATORY CONTROL SAMPLE: 2625600

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 2.5         | 2.8        | 111       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625601 2625602

| Parameter | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | 92434683005 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| Mercury   | ug/L  | ND                 | 2.5         | 2.5         | 2.9   | 3.0       | 114        | 119      | 75-125    | 4            | 25  |         |      |

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### QUALITY CONTROL DATA

Project: ROW-603  
 Pace Project No.: 92434683

QC Batch: 483590 Analysis Method: EPA 7471B  
 QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury  
 Associated Lab Samples: 92434654012

METHOD BLANK: 2613703 Matrix: Solid  
 Associated Lab Samples: 92434654012

| Parameter | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Mercury   | mg/kg | ND           | 0.0060          | 0.0030 | 06/28/19 09:20 |            |

LABORATORY CONTROL SAMPLE: 2613704

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | mg/kg | 0.083       | 0.086      | 103       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2613705 2613706

| Parameter | Units | 2613705            |                | 2613706         |      | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | 92434543002 Result | MS Spike Conc. | MSD Spike Conc. |      |           |            |          |           |              |     |         |      |
| Mercury   | mg/kg | 0.089              | 0.14           | 0.14            | 0.23 | 0.23      | 102        | 100      | 75-125    | 4            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 484340      Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B      Analysis Description: 6010 MET  
Associated Lab Samples: 92434654012

METHOD BLANK: 2616991      Matrix: Solid  
Associated Lab Samples: 92434654012

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Arsenic   | mg/kg | ND           | 1.0             | 0.50  | 07/02/19 23:21 |            |
| Barium    | mg/kg | ND           | 0.50            | 0.25  | 07/02/19 23:21 |            |
| Cadmium   | mg/kg | ND           | 0.10            | 0.050 | 07/02/19 23:21 |            |
| Chromium  | mg/kg | ND           | 0.50            | 0.25  | 07/02/19 23:21 |            |
| Lead      | mg/kg | ND           | 0.50            | 0.25  | 07/02/19 23:21 |            |
| Selenium  | mg/kg | ND           | 1.0             | 0.50  | 07/02/19 23:21 |            |
| Silver    | mg/kg | ND           | 0.50            | 0.25  | 07/02/19 23:21 |            |

LABORATORY CONTROL SAMPLE: 2616992

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | mg/kg | 50          | 43.4       | 87        | 80-120       |            |
| Barium    | mg/kg | 50          | 48.0       | 96        | 80-120       |            |
| Cadmium   | mg/kg | 50          | 45.6       | 91        | 80-120       |            |
| Chromium  | mg/kg | 50          | 47.6       | 95        | 80-120       |            |
| Lead      | mg/kg | 50          | 45.5       | 91        | 80-120       |            |
| Selenium  | mg/kg | 50          | 43.1       | 86        | 80-120       |            |
| Silver    | mg/kg | 25          | 22.8       | 91        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2616993      2616994

| Parameter | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|           |       | 92434812001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| Arsenic   | mg/kg | 2.4                | 55.1        | 56          | 44.7   | 45.7     | 77        | 77           | 75-125 | 2       | 20   |
| Barium    | mg/kg | 13.6               | 55.1        | 56          | 66.0   | 67.2     | 95        | 96           | 75-125 | 2       | 20   |
| Cadmium   | mg/kg | 0.18               | 55.1        | 56          | 47.4   | 49.1     | 86        | 87           | 75-125 | 3       | 20   |
| Chromium  | mg/kg | 77.9               | 55.1        | 56          | 122    | 127      | 80        | 87           | 75-125 | 4       | 20   |
| Lead      | mg/kg | 11.4               | 55.1        | 56          | 55.4   | 57.2     | 80        | 82           | 75-125 | 3       | 20   |
| Selenium  | mg/kg | 1.8                | 55.1        | 56          | 44.2   | 45.1     | 77        | 77           | 75-125 | 2       | 20   |
| Silver    | mg/kg | ND                 | 27.5        | 28          | 24.8   | 25.7     | 89        | 91           | 75-125 | 4       | 20   |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 486318                      Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A            Analysis Description: 6010 MET TCLP  
Associated Lab Samples: 92434683004

METHOD BLANK: 2625550                      Matrix: Water  
Associated Lab Samples: 92434683004

| Parameter | Units | Blank Result | Reporting Limit | MDL     | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Arsenic   | mg/L  | ND           | 0.050           | 0.014   | 07/14/19 22:48 |            |
| Barium    | mg/L  | 0.038J       | 0.25            | 0.0050  | 07/14/19 22:48 |            |
| Cadmium   | mg/L  | ND           | 0.0050          | 0.0025  | 07/14/19 22:48 |            |
| Chromium  | mg/L  | ND           | 0.050           | 0.0020  | 07/14/19 22:48 |            |
| Lead      | mg/L  | ND           | 0.025           | 0.020   | 07/14/19 22:48 |            |
| Selenium  | mg/L  | ND           | 0.10            | 0.019   | 07/14/19 22:48 |            |
| Silver    | mg/L  | ND           | 0.025           | 0.00050 | 07/14/19 22:48 |            |

METHOD BLANK: 2625551                      Matrix: Water  
Associated Lab Samples: 92434683004

| Parameter | Units | Blank Result | Reporting Limit | MDL     | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Arsenic   | mg/L  | ND           | 0.050           | 0.014   | 07/14/19 22:55 |            |
| Barium    | mg/L  | 0.046J       | 0.25            | 0.0050  | 07/14/19 22:55 |            |
| Cadmium   | mg/L  | ND           | 0.0050          | 0.0025  | 07/14/19 22:55 |            |
| Chromium  | mg/L  | ND           | 0.050           | 0.0020  | 07/14/19 22:55 |            |
| Lead      | mg/L  | ND           | 0.025           | 0.020   | 07/14/19 22:55 |            |
| Selenium  | mg/L  | ND           | 0.10            | 0.019   | 07/14/19 22:55 |            |
| Silver    | mg/L  | ND           | 0.025           | 0.00050 | 07/14/19 22:55 |            |

LABORATORY CONTROL SAMPLE: 2626416

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | mg/L  | 2.5         | 2.5        | 99        | 80-120       |            |
| Barium    | mg/L  | 2.5         | 2.6        | 105       | 80-120       |            |
| Cadmium   | mg/L  | 2.5         | 2.5        | 102       | 80-120       |            |
| Chromium  | mg/L  | 2.5         | 2.6        | 104       | 80-120       |            |
| Lead      | mg/L  | 2.5         | 2.4        | 96        | 80-120       |            |
| Selenium  | mg/L  | 2.5         | 2.6        | 104       | 80-120       |            |
| Silver    | mg/L  | 1.2         | 1.3        | 103       | 80-120       |            |

LABORATORY CONTROL SAMPLE: 2626417

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | mg/L  | 2.5         | 2.4        | 97        | 80-120       |            |
| Barium    | mg/L  | 2.5         | 2.6        | 103       | 80-120       |            |

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434683

LABORATORY CONTROL SAMPLE: 2626417

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cadmium   | mg/L  | 2.5         | 2.5        | 101       | 80-120       |            |
| Chromium  | mg/L  | 2.5         | 2.5        | 102       | 80-120       |            |
| Lead      | mg/L  | 2.5         | 2.5        | 99        | 80-120       |            |
| Selenium  | mg/L  | 2.5         | 2.6        | 106       | 80-120       |            |
| Silver    | mg/L  | 1.2         | 1.3        | 101       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626418 2626419

| Parameter | Units | 2626418            |                | 2626419         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 92435536001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Arsenic   | mg/L  | ND                 | 2.5            | 2.5             | 2.5       | 2.5      | 100       | 98           | 75-125 | 2       | 20   |
| Barium    | mg/L  | 0.54               | 2.5            | 2.5             | 3.2       | 3.2      | 106       | 106          | 75-125 | 1       | 20   |
| Cadmium   | mg/L  | 0.14               | 2.5            | 2.5             | 2.7       | 2.7      | 103       | 103          | 75-125 | 0       | 20   |
| Chromium  | mg/L  | ND                 | 2.5            | 2.5             | 2.6       | 2.6      | 102       | 103          | 75-125 | 1       | 20   |
| Lead      | mg/L  | 0.079              | 2.5            | 2.5             | 2.5       | 2.5      | 96        | 96           | 75-125 | 1       | 20   |
| Selenium  | mg/L  | ND                 | 2.5            | 2.5             | 2.6       | 2.7      | 105       | 106          | 75-125 | 0       | 20   |
| Silver    | mg/L  | ND                 | 1.2            | 1.2             | 1.3       | 1.3      | 103       | 104          | 75-125 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 483501 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Associated Lab Samples: 92434654013

METHOD BLANK: 2613245 Matrix: Water  
Associated Lab Samples: 92434654013

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Arsenic   | ug/L  | ND           | 10.0            | 5.0  | 06/27/19 21:27 |            |
| Barium    | ug/L  | ND           | 5.0             | 2.5  | 06/27/19 21:27 |            |
| Cadmium   | ug/L  | ND           | 1.0             | 0.50 | 06/27/19 21:27 |            |
| Chromium  | ug/L  | ND           | 5.0             | 2.5  | 06/27/19 21:27 |            |
| Lead      | ug/L  | ND           | 5.0             | 2.5  | 06/27/19 21:27 |            |
| Selenium  | ug/L  | ND           | 10.0            | 5.0  | 06/27/19 21:27 |            |
| Silver    | ug/L  | ND           | 5.0             | 2.5  | 06/27/19 21:27 |            |

LABORATORY CONTROL SAMPLE: 2613246

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/L  | 500         | 473        | 95        | 80-120       |            |
| Barium    | ug/L  | 500         | 507        | 101       | 80-120       |            |
| Cadmium   | ug/L  | 500         | 503        | 101       | 80-120       |            |
| Chromium  | ug/L  | 500         | 509        | 102       | 80-120       |            |
| Lead      | ug/L  | 500         | 495        | 99        | 80-120       |            |
| Selenium  | ug/L  | 500         | 496        | 99        | 80-120       |            |
| Silver    | ug/L  | 250         | 257        | 103       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2613247 2613248

| Parameter | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 92434337001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      |
| Arsenic   | ug/L  | ND                 | 500         | 500         | 481       | 487      | 95        | 96           | 75-125 | 1       | 20   |
| Barium    | ug/L  | 27.0               | 500         | 500         | 534       | 530      | 101       | 101          | 75-125 | 1       | 20   |
| Cadmium   | ug/L  | ND                 | 500         | 500         | 504       | 501      | 101       | 100          | 75-125 | 1       | 20   |
| Chromium  | ug/L  | ND                 | 500         | 500         | 511       | 513      | 101       | 102          | 75-125 | 0       | 20   |
| Lead      | ug/L  | ND                 | 500         | 500         | 498       | 497      | 99        | 99           | 75-125 | 0       | 20   |
| Selenium  | ug/L  | ND                 | 500         | 500         | 535       | 534      | 107       | 107          | 75-125 | 0       | 20   |
| Silver    | ug/L  | ND                 | 250         | 250         | 256       | 254      | 102       | 102          | 75-125 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434683

QC Batch: 486215      Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A      Analysis Description: 6010 MET  
 Associated Lab Samples: 92434683005

METHOD BLANK: 2626071      Matrix: Water

Associated Lab Samples: 92434683005

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Arsenic   | ug/L  | ND           | 10.0            | 5.0  | 07/13/19 17:35 |            |
| Barium    | ug/L  | ND           | 5.0             | 2.5  | 07/13/19 17:35 |            |
| Cadmium   | ug/L  | ND           | 1.0             | 0.50 | 07/13/19 17:35 |            |
| Chromium  | ug/L  | ND           | 5.0             | 2.5  | 07/13/19 17:35 |            |
| Lead      | ug/L  | ND           | 5.0             | 2.5  | 07/13/19 17:35 |            |
| Selenium  | ug/L  | ND           | 10.0            | 5.0  | 07/13/19 17:35 |            |
| Silver    | ug/L  | ND           | 5.0             | 2.5  | 07/13/19 17:35 |            |

LABORATORY CONTROL SAMPLE: 2626072

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/L  | 500         | 451        | 90        | 80-120       |            |
| Barium    | ug/L  | 500         | 489        | 98        | 80-120       |            |
| Cadmium   | ug/L  | 500         | 482        | 96        | 80-120       |            |
| Chromium  | ug/L  | 500         | 489        | 98        | 80-120       |            |
| Lead      | ug/L  | 500         | 474        | 95        | 80-120       |            |
| Selenium  | ug/L  | 500         | 475        | 95        | 80-120       |            |
| Silver    | ug/L  | 250         | 245        | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626073      2626074

| Parameter | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | 92436389004 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| Arsenic   | ug/L  | ND                 | 500         | 500         | 500   | 482       | 477        | 95       | 94        | 75-125       | 1   | 20      |      |
| Barium    | ug/L  | 297                | 500         | 500         | 500   | 779       | 788        | 96       | 98        | 75-125       | 1   | 20      |      |
| Cadmium   | ug/L  | ND                 | 500         | 500         | 500   | 489       | 491        | 98       | 98        | 75-125       | 1   | 20      |      |
| Chromium  | ug/L  | 151                | 500         | 500         | 500   | 642       | 649        | 98       | 100       | 75-125       | 1   | 20      |      |
| Lead      | ug/L  | ND                 | 500         | 500         | 500   | 483       | 488        | 96       | 97        | 75-125       | 1   | 20      |      |
| Selenium  | ug/L  | ND                 | 500         | 500         | 500   | 519       | 515        | 102      | 101       | 75-125       | 1   | 20      |      |
| Silver    | ug/L  | ND                 | 250         | 250         | 250   | 256       | 258        | 103      | 103       | 75-125       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 485748                      Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D            Analysis Description: 8260D MSV Low Level  
Associated Lab Samples: 92434683005

METHOD BLANK: 2623530                      Matrix: Water  
Associated Lab Samples: 92434683005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND           | 1.0             | 0.34 | 07/10/19 23:51 |            |
| 1,1,1-Trichloroethane       | ug/L  | ND           | 1.0             | 0.18 | 07/10/19 23:51 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 1.0             | 0.24 | 07/10/19 23:51 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 1.0             | 0.27 | 07/10/19 23:51 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 1.0             | 0.24 | 07/10/19 23:51 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 1.0             | 0.21 | 07/10/19 23:51 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND           | 1.0             | 0.34 | 07/10/19 23:51 |            |
| 1,2,3-Trichloropropane      | ug/L  | ND           | 1.0             | 0.35 | 07/10/19 23:51 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND           | 5.0             | 0.26 | 07/10/19 23:51 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 1.0             | 0.26 | 07/10/19 23:51 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 1.0             | 0.29 | 07/10/19 23:51 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 1.0             | 0.34 | 07/10/19 23:51 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 1.0             | 0.19 | 07/10/19 23:51 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 1.0             | 0.16 | 07/10/19 23:51 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 1.0             | 0.26 | 07/10/19 23:51 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 1.0             | 0.27 | 07/10/19 23:51 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 5.0             | 3.3  | 07/10/19 23:51 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 1.0             | 0.20 | 07/10/19 23:51 |            |
| 2-Hexanone                  | ug/L  | ND           | 5.0             | 0.57 | 07/10/19 23:51 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 1.0             | 0.20 | 07/10/19 23:51 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 5.0             | 4.5  | 07/10/19 23:51 |            |
| Acetone                     | ug/L  | ND           | 25.0            | 6.2  | 07/10/19 23:51 |            |
| Benzene                     | ug/L  | ND           | 1.0             | 0.15 | 07/10/19 23:51 |            |
| Bromobenzene                | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| Bromochloromethane          | ug/L  | ND           | 1.0             | 0.34 | 07/10/19 23:51 |            |
| Bromodichloromethane        | ug/L  | ND           | 1.0             | 0.26 | 07/10/19 23:51 |            |
| Bromoform                   | ug/L  | ND           | 1.0             | 0.62 | 07/10/19 23:51 |            |
| Bromomethane                | ug/L  | ND           | 2.0             | 0.62 | 07/10/19 23:51 |            |
| Carbon tetrachloride        | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| Chlorobenzene               | ug/L  | ND           | 1.0             | 0.23 | 07/10/19 23:51 |            |
| Chloroethane                | ug/L  | ND           | 1.0             | 0.49 | 07/10/19 23:51 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 2.3  | 07/10/19 23:51 |            |
| Chloromethane               | ug/L  | ND           | 1.0             | 0.39 | 07/10/19 23:51 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 1.0             | 0.29 | 07/10/19 23:51 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 1.0             | 0.30 | 07/10/19 23:51 |            |
| Dibromochloromethane        | ug/L  | ND           | 1.0             | 0.41 | 07/10/19 23:51 |            |
| Dibromomethane              | ug/L  | ND           | 1.0             | 0.46 | 07/10/19 23:51 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 1.0             | 0.23 | 07/10/19 23:51 |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

METHOD BLANK: 2623530

Matrix: Water

Associated Lab Samples: 92434683005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 0.26 | 07/10/19 23:51 |            |
| Hexachloro-1,3-butadiene  | ug/L  | ND           | 1.0             | 0.44 | 07/10/19 23:51 |            |
| m&p-Xylene                | ug/L  | ND           | 2.0             | 0.41 | 07/10/19 23:51 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 0.28 | 07/10/19 23:51 |            |
| Methylene Chloride        | ug/L  | ND           | 5.0             | 3.7  | 07/10/19 23:51 |            |
| Naphthalene               | ug/L  | ND           | 1.0             | 0.35 | 07/10/19 23:51 |            |
| o-Xylene                  | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| p-Isopropyltoluene        | ug/L  | ND           | 1.0             | 0.21 | 07/10/19 23:51 |            |
| Styrene                   | ug/L  | ND           | 1.0             | 0.27 | 07/10/19 23:51 |            |
| Tetrachloroethene         | ug/L  | ND           | 1.0             | 0.16 | 07/10/19 23:51 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 0.24 | 07/10/19 23:51 |            |
| trans-1,2-Dichloroethene  | ug/L  | ND           | 1.0             | 0.25 | 07/10/19 23:51 |            |
| trans-1,3-Dichloropropene | ug/L  | ND           | 1.0             | 0.31 | 07/10/19 23:51 |            |
| Trichloroethene           | ug/L  | ND           | 1.0             | 0.22 | 07/10/19 23:51 |            |
| Trichlorofluoromethane    | ug/L  | ND           | 1.0             | 0.31 | 07/10/19 23:51 |            |
| Vinyl acetate             | ug/L  | ND           | 2.0             | 1.4  | 07/10/19 23:51 |            |
| Vinyl chloride            | ug/L  | ND           | 1.0             | 0.24 | 07/10/19 23:51 |            |
| Xylene (Total)            | ug/L  | ND           | 1.0             | 0.63 | 07/10/19 23:51 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 70-130          |      | 07/10/19 23:51 |            |
| 4-Bromofluorobenzene (S)  | %     | 101          | 70-130          |      | 07/10/19 23:51 |            |
| Toluene-d8 (S)            | %     | 102          | 70-130          |      | 07/10/19 23:51 |            |

LABORATORY CONTROL SAMPLE: 2623531

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | 50          | 55.0       | 110       | 70-130       |            |
| 1,1,1-Trichloroethane       | ug/L  | 50          | 53.1       | 106       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 53.7       | 107       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 54.8       | 110       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 55.4       | 111       | 70-130       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 57.1       | 114       | 70-130       |            |
| 1,1-Dichloropropene         | ug/L  | 50          | 52.2       | 104       | 70-130       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 55.8       | 112       | 70-130       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 55.2       | 110       | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 56.8       | 114       | 70-130       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 54.3       | 109       | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 53.1       | 106       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 49.4       | 99        | 70-130       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 52.2       | 104       | 70-130       |            |
| 1,3-Dichloropropane         | ug/L  | 50          | 53.8       | 108       | 70-131       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 51.7       | 103       | 70-130       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

LABORATORY CONTROL SAMPLE: 2623531

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,2-Dichloropropane         | ug/L  | 50          | 54.6       | 109       | 69-130       |            |
| 2-Butanone (MEK)            | ug/L  | 100         | 99.0       | 99        | 64-135       |            |
| 2-Chlorotoluene             | ug/L  | 50          | 52.5       | 105       | 70-130       |            |
| 2-Hexanone                  | ug/L  | 100         | 107        | 107       | 66-135       |            |
| 4-Chlorotoluene             | ug/L  | 50          | 52.1       | 104       | 70-130       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 100         | 107        | 107       | 70-130       |            |
| Acetone                     | ug/L  | 100         | 113        | 113       | 61-157       |            |
| Benzene                     | ug/L  | 50          | 55.5       | 111       | 70-130       |            |
| Bromobenzene                | ug/L  | 50          | 53.9       | 108       | 70-130       |            |
| Bromochloromethane          | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| Bromodichloromethane        | ug/L  | 50          | 56.9       | 114       | 70-130       |            |
| Bromoform                   | ug/L  | 50          | 55.4       | 111       | 70-130       |            |
| Bromomethane                | ug/L  | 50          | 54.1       | 108       | 38-130       |            |
| Carbon tetrachloride        | ug/L  | 50          | 52.0       | 104       | 70-130       |            |
| Chlorobenzene               | ug/L  | 50          | 52.9       | 106       | 70-130       |            |
| Chloroethane                | ug/L  | 50          | 51.0       | 102       | 37-142       |            |
| Chloroform                  | ug/L  | 50          | 53.9       | 108       | 70-130       |            |
| Chloromethane               | ug/L  | 50          | 52.1       | 104       | 48-130       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 54.4       | 109       | 70-130       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 59.6       | 119       | 70-130       |            |
| Dibromochloromethane        | ug/L  | 50          | 55.9       | 112       | 70-130       |            |
| Dibromomethane              | ug/L  | 50          | 54.4       | 109       | 70-130       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 49.3       | 99        | 53-134       |            |
| Diisopropyl ether           | ug/L  | 50          | 55.1       | 110       | 70-135       |            |
| Ethylbenzene                | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 50          | 54.2       | 108       | 68-132       |            |
| m&p-Xylene                  | ug/L  | 100         | 108        | 108       | 70-130       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 54.7       | 109       | 70-130       |            |
| Methylene Chloride          | ug/L  | 50          | 54.3       | 109       | 67-132       |            |
| Naphthalene                 | ug/L  | 50          | 57.5       | 115       | 70-130       |            |
| o-Xylene                    | ug/L  | 50          | 56.0       | 112       | 70-131       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 52.6       | 105       | 70-130       |            |
| Styrene                     | ug/L  | 50          | 55.1       | 110       | 70-130       |            |
| Tetrachloroethene           | ug/L  | 50          | 53.7       | 107       | 69-130       |            |
| Toluene                     | ug/L  | 50          | 54.9       | 110       | 70-130       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 55.7       | 111       | 70-130       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | 56.8       | 114       | 70-130       |            |
| Trichloroethene             | ug/L  | 50          | 53.1       | 106       | 70-130       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 48.8       | 98        | 63-130       |            |
| Vinyl acetate               | ug/L  | 100         | 111        | 111       | 55-143       |            |
| Vinyl chloride              | ug/L  | 50          | 55.8       | 112       | 70-131       |            |
| Xylene (Total)              | ug/L  | 150         | 164        | 110       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S)   | %     |             |            | 101       | 70-130       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 100       | 70-130       |            |
| Toluene-d8 (S)              | %     |             |            | 101       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

| MATRIX SPIKE SAMPLE:        | 2624039 | 92435147007 | Spike | MS     | MS    | % Rec  |            |
|-----------------------------|---------|-------------|-------|--------|-------|--------|------------|
| Parameter                   | Units   | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1,2-Tetrachloroethane   | ug/L    | ND          | 20    | 21.3   | 107   | 73-134 |            |
| 1,1,1-Trichloroethane       | ug/L    | ND          | 20    | 22.8   | 114   | 82-143 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L    | ND          | 20    | 21.0   | 105   | 70-136 |            |
| 1,1,2-Trichloroethane       | ug/L    | ND          | 20    | 22.0   | 110   | 70-135 |            |
| 1,1-Dichloroethane          | ug/L    | ND          | 20    | 23.1   | 116   | 70-139 |            |
| 1,1-Dichloroethene          | ug/L    | ND          | 20    | 24.1   | 121   | 70-154 |            |
| 1,1-Dichloropropene         | ug/L    | ND          | 20    | 22.9   | 114   | 70-149 |            |
| 1,2,3-Trichlorobenzene      | ug/L    | ND          | 20    | 19.9   | 99    | 70-135 |            |
| 1,2,3-Trichloropropane      | ug/L    | ND          | 20    | 22.3   | 111   | 71-137 |            |
| 1,2,4-Trichlorobenzene      | ug/L    | ND          | 20    | 19.2   | 96    | 73-140 |            |
| 1,2-Dibromo-3-chloropropane | ug/L    | ND          | 20    | 20.0   | 100   | 65-134 |            |
| 1,2-Dibromoethane (EDB)     | ug/L    | ND          | 20    | 21.4   | 107   | 70-137 |            |
| 1,2-Dichlorobenzene         | ug/L    | ND          | 20    | 20.6   | 103   | 70-133 |            |
| 1,2-Dichloroethane          | ug/L    | ND          | 20    | 20.3   | 102   | 70-137 |            |
| 1,2-Dichloropropane         | ug/L    | ND          | 20    | 21.6   | 108   | 70-140 |            |
| 1,3-Dichlorobenzene         | ug/L    | ND          | 20    | 20.5   | 103   | 70-135 |            |
| 1,3-Dichloropropane         | ug/L    | ND          | 20    | 21.7   | 108   | 70-143 |            |
| 1,4-Dichlorobenzene         | ug/L    | ND          | 20    | 20.3   | 102   | 70-133 |            |
| 2,2-Dichloropropane         | ug/L    | ND          | 20    | 21.2   | 106   | 61-148 |            |
| 2-Butanone (MEK)            | ug/L    | ND          | 40    | 42.2   | 106   | 60-139 |            |
| 2-Chlorotoluene             | ug/L    | ND          | 20    | 20.6   | 103   | 70-144 |            |
| 2-Hexanone                  | ug/L    | ND          | 40    | 41.9   | 105   | 65-138 |            |
| 4-Chlorotoluene             | ug/L    | ND          | 20    | 21.0   | 105   | 70-137 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L    | ND          | 40    | 43.7   | 109   | 65-135 |            |
| Acetone                     | ug/L    | ND          | 40    | 44.0   | 110   | 60-148 |            |
| Benzene                     | ug/L    | ND          | 20    | 23.1   | 115   | 70-151 |            |
| Bromobenzene                | ug/L    | ND          | 20    | 20.7   | 104   | 70-136 |            |
| Bromochloromethane          | ug/L    | ND          | 20    | 23.1   | 116   | 70-141 |            |
| Bromodichloromethane        | ug/L    | ND          | 20    | 21.1   | 105   | 70-138 |            |
| Bromoform                   | ug/L    | ND          | 20    | 18.9   | 95    | 63-130 |            |
| Bromomethane                | ug/L    | ND          | 20    | 14.5   | 73    | 15-152 | v3         |
| Carbon tetrachloride        | ug/L    | ND          | 20    | 21.8   | 109   | 70-143 |            |
| Chlorobenzene               | ug/L    | ND          | 20    | 21.2   | 106   | 70-138 |            |
| Chloroethane                | ug/L    | ND          | 20    | 23.9   | 120   | 52-163 |            |
| Chloroform                  | ug/L    | ND          | 20    | 22.7   | 114   | 70-139 |            |
| Chloromethane               | ug/L    | ND          | 20    | 14.9   | 75    | 41-139 |            |
| cis-1,2-Dichloroethene      | ug/L    | ND          | 20    | 22.5   | 113   | 70-141 |            |
| cis-1,3-Dichloropropene     | ug/L    | ND          | 20    | 22.4   | 112   | 70-137 |            |
| Dibromochloromethane        | ug/L    | ND          | 20    | 18.8   | 94    | 70-134 |            |
| Dibromomethane              | ug/L    | ND          | 20    | 21.6   | 108   | 70-138 |            |
| Dichlorodifluoromethane     | ug/L    | ND          | 20    | 19.0   | 95    | 47-155 |            |
| Diisopropyl ether           | ug/L    | ND          | 20    | 21.6   | 108   | 63-144 |            |
| Ethylbenzene                | ug/L    | ND          | 20    | 22.1   | 111   | 66-153 |            |
| Hexachloro-1,3-butadiene    | ug/L    | ND          | 20    | 18.8   | 94    | 65-149 |            |
| m&p-Xylene                  | ug/L    | ND          | 40    | 43.6   | 109   | 69-152 |            |
| Methyl-tert-butyl ether     | ug/L    | ND          | 20    | 21.0   | 105   | 54-156 |            |
| Methylene Chloride          | ug/L    | ND          | 20    | 23.2   | 116   | 42-159 |            |

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**QUALITY CONTROL DATA**

Project: ROW-603

Pace Project No.: 92434683

| MATRIX SPIKE SAMPLE: 2624039 |       | 92435147007 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Naphthalene                  | ug/L  | ND          | 20    | 19.3   | 97    | 61-148 |            |
| o-Xylene                     | ug/L  | ND          | 20    | 22.5   | 113   | 70-148 |            |
| p-Isopropyltoluene           | ug/L  | ND          | 20    | 20.4   | 102   | 70-146 |            |
| Styrene                      | ug/L  | ND          | 20    | 21.6   | 108   | 70-135 |            |
| Tetrachloroethene            | ug/L  | ND          | 20    | 22.6   | 113   | 59-143 |            |
| Toluene                      | ug/L  | ND          | 20    | 22.4   | 112   | 59-148 |            |
| trans-1,2-Dichloroethene     | ug/L  | ND          | 20    | 23.5   | 117   | 70-146 |            |
| trans-1,3-Dichloropropene    | ug/L  | ND          | 20    | 20.3   | 102   | 70-135 |            |
| Trichloroethene              | ug/L  | ND          | 20    | 22.0   | 110   | 70-147 |            |
| Trichlorofluoromethane       | ug/L  | ND          | 20    | 20.9   | 105   | 70-148 |            |
| Vinyl acetate                | ug/L  | ND          | 40    | 41.0   | 102   | 49-151 |            |
| Vinyl chloride               | ug/L  | ND          | 20    | 21.6   | 108   | 70-156 |            |
| Xylene (Total)               | ug/L  | ND          | 60    | 66.1   | 110   | 63-158 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 99    | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 102   | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 100   | 70-130 |            |

SAMPLE DUPLICATE: 2624038

| Parameter                   | Units | 92435147001 | Dup    | RPD | Max | Qualifiers |
|-----------------------------|-------|-------------|--------|-----|-----|------------|
|                             |       | Result      | Result |     | RPD |            |
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND          | ND     |     | 30  |            |
| 1,1,1-Trichloroethane       | ug/L  | ND          | ND     |     | 30  |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND          | ND     |     | 30  |            |
| 1,1,2-Trichloroethane       | ug/L  | ND          | ND     |     | 30  |            |
| 1,1-Dichloroethane          | ug/L  | ND          | ND     |     | 30  |            |
| 1,1-Dichloroethene          | ug/L  | ND          | ND     |     | 30  |            |
| 1,1-Dichloropropene         | ug/L  | ND          | ND     |     | 30  |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND          | ND     |     | 30  |            |
| 1,2,3-Trichloropropane      | ug/L  | ND          | ND     |     | 30  |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichlorobenzene         | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane          | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloropropane         | ug/L  | ND          | ND     |     | 30  |            |
| 1,3-Dichlorobenzene         | ug/L  | ND          | ND     |     | 30  |            |
| 1,3-Dichloropropane         | ug/L  | ND          | ND     |     | 30  |            |
| 1,4-Dichlorobenzene         | ug/L  | ND          | ND     |     | 30  |            |
| 2,2-Dichloropropane         | ug/L  | ND          | ND     |     | 30  |            |
| 2-Butanone (MEK)            | ug/L  | ND          | ND     |     | 30  |            |
| 2-Chlorotoluene             | ug/L  | ND          | ND     |     | 30  |            |
| 2-Hexanone                  | ug/L  | ND          | ND     |     | 30  |            |
| 4-Chlorotoluene             | ug/L  | ND          | ND     |     | 30  |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND          | ND     |     | 30  |            |
| Acetone                     | ug/L  | ND          | ND     |     | 30  |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

SAMPLE DUPLICATE: 2624038

| Parameter                 | Units | 92435147001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Benzene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Bromobenzene              | ug/L  | ND                    | ND            |     | 30         |            |
| Bromochloromethane        | ug/L  | ND                    | ND            |     | 30         |            |
| Bromodichloromethane      | ug/L  | ND                    | ND            |     | 30         |            |
| Bromoform                 | ug/L  | ND                    | ND            |     | 30         |            |
| Bromomethane              | ug/L  | ND                    | ND            |     | 30 v2      |            |
| Carbon tetrachloride      | ug/L  | ND                    | ND            |     | 30         |            |
| Chlorobenzene             | ug/L  | ND                    | ND            |     | 30         |            |
| Chloroethane              | ug/L  | ND                    | ND            |     | 30         |            |
| Chloroform                | ug/L  | ND                    | ND            |     | 30         |            |
| Chloromethane             | ug/L  | ND                    | ND            |     | 30         |            |
| cis-1,2-Dichloroethene    | ug/L  | ND                    | ND            |     | 30         |            |
| cis-1,3-Dichloropropene   | ug/L  | ND                    | ND            |     | 30         |            |
| Dibromochloromethane      | ug/L  | ND                    | ND            |     | 30         |            |
| Dibromomethane            | ug/L  | ND                    | ND            |     | 30         |            |
| Dichlorodifluoromethane   | ug/L  | ND                    | ND            |     | 30         |            |
| Diisopropyl ether         | ug/L  | ND                    | ND            |     | 30         |            |
| Ethylbenzene              | ug/L  | ND                    | ND            |     | 30         |            |
| Hexachloro-1,3-butadiene  | ug/L  | ND                    | ND            |     | 30         |            |
| m&p-Xylene                | ug/L  | ND                    | ND            |     | 30         |            |
| Methyl-tert-butyl ether   | ug/L  | ND                    | ND            |     | 30         |            |
| Methylene Chloride        | ug/L  | ND                    | ND            |     | 30         |            |
| Naphthalene               | ug/L  | ND                    | ND            |     | 30         |            |
| o-Xylene                  | ug/L  | ND                    | ND            |     | 30         |            |
| p-Isopropyltoluene        | ug/L  | ND                    | ND            |     | 30         |            |
| Styrene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Tetrachloroethene         | ug/L  | ND                    | ND            |     | 30         |            |
| Toluene                   | ug/L  | ND                    | ND            |     | 30         |            |
| trans-1,2-Dichloroethene  | ug/L  | ND                    | ND            |     | 30         |            |
| trans-1,3-Dichloropropene | ug/L  | ND                    | ND            |     | 30         |            |
| Trichloroethene           | ug/L  | ND                    | ND            |     | 30         |            |
| Trichlorofluoromethane    | ug/L  | ND                    | ND            |     | 30         |            |
| Vinyl acetate             | ug/L  | ND                    | ND            |     | 30         |            |
| Vinyl chloride            | ug/L  | ND                    | ND            |     | 30         |            |
| Xylene (Total)            | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98                    | 102           |     |            |            |
| 4-Bromofluorobenzene (S)  | %     | 101                   | 102           |     |            |            |
| Toluene-d8 (S)            | %     | 100                   | 103           |     |            |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 483855 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92434654013

METHOD BLANK: 2615042 Matrix: Water  
Associated Lab Samples: 92434654013

| Parameter                 | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | ND           | 2.0             | 1.2 | 06/28/19 11:45 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 109          | 50-150          |     | 06/28/19 11:45 |            |
| Toluene-d8 (S)            | %     | 119          | 50-150          |     | 06/28/19 11:45 |            |

LABORATORY CONTROL SAMPLE: 2615043

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | 20          | 19.7       | 99        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 111       | 50-150       |            |
| Toluene-d8 (S)            | %     |             |            | 120       | 50-150       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2615044 2615045

| Parameter                 | Units | 92434094002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | 1110               | 500            | 500             | 1700      | 1580       | 118      | 94        | 50-150       | 7   | 30      |      |
| 1,2-Dichloroethane-d4 (S) | %     |                    |                |                 |           |            | 113      | 111       | 50-150       |     | 30      |      |
| Toluene-d8 (S)            | %     |                    |                |                 |           |            | 119      | 118       | 50-150       |     | 30      |      |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 485922 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92434683005

METHOD BLANK: 2624266 Matrix: Water  
Associated Lab Samples: 92434683005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | ND           | 2.0             | 1.2 | 07/11/19 16:09 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102          | 50-150          |     | 07/11/19 16:09 |            |
| Toluene-d8 (S)            | %     | 107          | 50-150          |     | 07/11/19 16:09 |            |

LABORATORY CONTROL SAMPLE: 2624267

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | 20          | 21.6       | 108       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 101       | 50-150       |            |
| Toluene-d8 (S)            | %     |             |            | 104       | 50-150       |            |

MATRIX SPIKE SAMPLE: 2624268

| Parameter                 | Units | 92436163001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | ND                 | 20          | 22.0      | 105      | 50-150       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 101      | 50-150       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 106      | 50-150       |            |

SAMPLE DUPLICATE: 2625703

| Parameter                 | Units | 92435886001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,4-Dioxane (p-Dioxane)   | ug/L  | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 99                 | 98         |     | 30      |            |
| Toluene-d8 (S)            | %     | 109                | 106        |     | 30      |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

QC Batch: 1307459      Analysis Method: EPA 8260D  
QC Batch Method: 8260D      Analysis Description: VOA (GC/MS) 8260D  
Associated Lab Samples: 92434654013

METHOD BLANK: R3428454-2      Matrix: Water  
Associated Lab Samples: 92434654013

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| Acetone                     | ug/L  | ND           | 50.0            | 10.0  | 07/07/19 11:22 |            |
| Benzene                     | ug/L  | ND           | 1.00            | 0.331 | 07/07/19 11:22 |            |
| Bromobenzene                | ug/L  | ND           | 1.00            | 0.352 | 07/07/19 11:22 |            |
| Bromodichloromethane        | ug/L  | ND           | 1.00            | 0.380 | 07/07/19 11:22 |            |
| Bromochloromethane          | ug/L  | ND           | 5.00            | 0.520 | 07/07/19 11:22 |            |
| Bromoform                   | ug/L  | ND           | 1.00            | 0.469 | 07/07/19 11:22 |            |
| Bromomethane                | ug/L  | ND           | 5.00            | 0.866 | 07/07/19 11:22 |            |
| n-Butylbenzene              | ug/L  | ND           | 1.00            | 0.361 | 07/07/19 11:22 |            |
| sec-Butylbenzene            | ug/L  | ND           | 1.00            | 0.365 | 07/07/19 11:22 |            |
| tert-Butylbenzene           | ug/L  | ND           | 1.00            | 0.399 | 07/07/19 11:22 |            |
| Carbon disulfide            | ug/L  | ND           | 1.00            | 0.275 | 07/07/19 11:22 |            |
| Carbon tetrachloride        | ug/L  | ND           | 1.00            | 0.379 | 07/07/19 11:22 |            |
| Chlorobenzene               | ug/L  | ND           | 1.00            | 0.348 | 07/07/19 11:22 |            |
| Dibromochloromethane        | ug/L  | ND           | 1.00            | 0.327 | 07/07/19 11:22 |            |
| Chloroethane                | ug/L  | ND           | 5.00            | 0.453 | 07/07/19 11:22 |            |
| Chloroform                  | ug/L  | ND           | 5.00            | 0.324 | 07/07/19 11:22 |            |
| Chloromethane               | ug/L  | ND           | 2.50            | 0.276 | 07/07/19 11:22 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 1.00            | 0.375 | 07/07/19 11:22 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 1.00            | 0.351 | 07/07/19 11:22 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND           | 5.00            | 1.33  | 07/07/19 11:22 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 1.00            | 0.381 | 07/07/19 11:22 |            |
| Dibromomethane              | ug/L  | ND           | 1.00            | 0.346 | 07/07/19 11:22 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 1.00            | 0.349 | 07/07/19 11:22 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 1.00            | 0.220 | 07/07/19 11:22 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 1.00            | 0.274 | 07/07/19 11:22 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 5.00            | 0.551 | 07/07/19 11:22 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 1.00            | 0.259 | 07/07/19 11:22 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 1.00            | 0.361 | 07/07/19 11:22 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 1.00            | 0.398 | 07/07/19 11:22 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 1.00            | 0.260 | 07/07/19 11:22 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 1.00            | 0.396 | 07/07/19 11:22 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 1.00            | 0.306 | 07/07/19 11:22 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 1.00            | 0.352 | 07/07/19 11:22 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 1.00            | 0.366 | 07/07/19 11:22 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 1.00            | 0.418 | 07/07/19 11:22 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 1.00            | 0.419 | 07/07/19 11:22 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 1.00            | 0.321 | 07/07/19 11:22 |            |
| Ethylbenzene                | ug/L  | ND           | 1.00            | 0.384 | 07/07/19 11:22 |            |
| Hexachloro-1,3-butadiene    | ug/L  | 0.424J       | 1.00            | 0.256 | 07/07/19 11:22 | J          |
| 2-Hexanone                  | ug/L  | ND           | 10.0            | 3.82  | 07/07/19 11:22 |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND           | 1.00            | 0.326 | 07/07/19 11:22 |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

METHOD BLANK: R3428454-2

Matrix: Water

Associated Lab Samples: 92434654013

| Parameter                      | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-------|----------------|------------|
| p-Isopropyltoluene             | ug/L  | ND           | 1.00            | 0.350 | 07/07/19 11:22 |            |
| 2-Butanone (MEK)               | ug/L  | ND           | 10.0            | 3.93  | 07/07/19 11:22 |            |
| Methylene Chloride             | ug/L  | ND           | 5.00            | 1.00  | 07/07/19 11:22 |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/L  | ND           | 10.0            | 2.14  | 07/07/19 11:22 |            |
| Methyl-tert-butyl ether        | ug/L  | ND           | 1.00            | 0.367 | 07/07/19 11:22 |            |
| Naphthalene                    | ug/L  | ND           | 5.00            | 1.00  | 07/07/19 11:22 |            |
| n-Propylbenzene                | ug/L  | ND           | 1.00            | 0.349 | 07/07/19 11:22 |            |
| Styrene                        | ug/L  | ND           | 1.00            | 0.307 | 07/07/19 11:22 |            |
| 1,1,1,2-Tetrachloroethane      | ug/L  | ND           | 1.00            | 0.385 | 07/07/19 11:22 |            |
| 1,1,2,2-Tetrachloroethane      | ug/L  | ND           | 1.00            | 0.130 | 07/07/19 11:22 |            |
| 1,1,2-Trichlorotrifluoroethane | ug/L  | ND           | 1.00            | 0.303 | 07/07/19 11:22 |            |
| Tetrachloroethane              | ug/L  | ND           | 1.00            | 0.372 | 07/07/19 11:22 |            |
| Toluene                        | ug/L  | ND           | 1.00            | 0.412 | 07/07/19 11:22 |            |
| 1,2,3-Trichlorobenzene         | ug/L  | 0.238J       | 1.00            | 0.230 | 07/07/19 11:22 | J          |
| 1,2,4-Trichlorobenzene         | ug/L  | ND           | 1.00            | 0.355 | 07/07/19 11:22 |            |
| 1,1,1-Trichloroethane          | ug/L  | ND           | 1.00            | 0.319 | 07/07/19 11:22 |            |
| 1,1,2-Trichloroethane          | ug/L  | ND           | 1.00            | 0.383 | 07/07/19 11:22 |            |
| Trichloroethene                | ug/L  | ND           | 1.00            | 0.398 | 07/07/19 11:22 |            |
| Trichlorofluoromethane         | ug/L  | ND           | 5.00            | 1.20  | 07/07/19 11:22 |            |
| 1,2,3-Trichloropropane         | ug/L  | ND           | 2.50            | 0.807 | 07/07/19 11:22 |            |
| 1,2,4-Trimethylbenzene         | ug/L  | ND           | 1.00            | 0.373 | 07/07/19 11:22 |            |
| 1,3,5-Trimethylbenzene         | ug/L  | ND           | 1.00            | 0.387 | 07/07/19 11:22 |            |
| Vinyl chloride                 | ug/L  | ND           | 1.00            | 0.259 | 07/07/19 11:22 |            |
| Xylene (Total)                 | ug/L  | ND           | 3.00            | 1.06  | 07/07/19 11:22 |            |
| Toluene-d8 (S)                 | %     | 104          | 80.0-120        |       | 07/07/19 11:22 |            |
| 4-Bromofluorobenzene (S)       | %     | 104          | 77.0-126        |       | 07/07/19 11:22 |            |
| 1,2-Dichloroethane-d4 (S)      | %     | 96.9         | 70.0-130        |       | 07/07/19 11:22 |            |

LABORATORY CONTROL SAMPLE: R3428454-1

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Acetone              | ug/L  | 125         | 120        | 96.4      | 19.0-160     |            |
| Benzene              | ug/L  | 25.0        | 26.7       | 107       | 70.0-123     |            |
| Bromobenzene         | ug/L  | 25.0        | 24.2       | 96.7      | 73.0-121     |            |
| Bromodichloromethane | ug/L  | 25.0        | 28.2       | 113       | 75.0-120     |            |
| Bromochloromethane   | ug/L  | 25.0        | 27.5       | 110       | 76.0-122     |            |
| Bromoform            | ug/L  | 25.0        | 24.5       | 98.0      | 68.0-132     |            |
| Bromomethane         | ug/L  | 25.0        | 27.5       | 110       | 10.0-160     |            |
| n-Butylbenzene       | ug/L  | 25.0        | 30.3       | 121       | 73.0-125     |            |
| sec-Butylbenzene     | ug/L  | 25.0        | 28.9       | 116       | 75.0-125     |            |
| tert-Butylbenzene    | ug/L  | 25.0        | 27.1       | 108       | 76.0-124     |            |
| Carbon disulfide     | ug/L  | 25.0        | 34.9       | 140       | 61.0-128     | L0         |
| Carbon tetrachloride | ug/L  | 25.0        | 28.6       | 114       | 68.0-126     |            |
| Chlorobenzene        | ug/L  | 25.0        | 24.6       | 98.2      | 80.0-121     |            |

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434683

LABORATORY CONTROL SAMPLE: R3428454-1

| Parameter                      | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Dibromochloromethane           | ug/L  | 25.0        | 25.7       | 103       | 77.0-125     |            |
| Chloroethane                   | ug/L  | 25.0        | 29.9       | 120       | 47.0-150     |            |
| Chloroform                     | ug/L  | 25.0        | 26.7       | 107       | 73.0-120     |            |
| Chloromethane                  | ug/L  | 25.0        | 34.0       | 136       | 41.0-142     |            |
| 2-Chlorotoluene                | ug/L  | 25.0        | 24.3       | 97.1      | 76.0-123     |            |
| 4-Chlorotoluene                | ug/L  | 25.0        | 25.4       | 102       | 75.0-122     |            |
| 1,2-Dibromo-3-chloropropane    | ug/L  | 25.0        | 22.9       | 91.4      | 58.0-134     |            |
| 1,2-Dibromoethane (EDB)        | ug/L  | 25.0        | 24.9       | 99.7      | 80.0-122     |            |
| Dibromomethane                 | ug/L  | 25.0        | 26.9       | 108       | 80.0-120     |            |
| 1,2-Dichlorobenzene            | ug/L  | 25.0        | 26.0       | 104       | 79.0-121     |            |
| 1,3-Dichlorobenzene            | ug/L  | 25.0        | 25.4       | 102       | 79.0-120     |            |
| 1,4-Dichlorobenzene            | ug/L  | 25.0        | 25.3       | 101       | 79.0-120     |            |
| Dichlorodifluoromethane        | ug/L  | 25.0        | 45.6       | 183       | 51.0-149     | L0         |
| 1,1-Dichloroethane             | ug/L  | 25.0        | 29.1       | 116       | 70.0-126     |            |
| 1,2-Dichloroethane             | ug/L  | 25.0        | 24.9       | 99.7      | 70.0-128     |            |
| 1,1-Dichloroethene             | ug/L  | 25.0        | 31.8       | 127       | 71.0-124     | L0         |
| cis-1,2-Dichloroethene         | ug/L  | 25.0        | 26.5       | 106       | 73.0-120     |            |
| trans-1,2-Dichloroethene       | ug/L  | 25.0        | 29.5       | 118       | 73.0-120     |            |
| 1,2-Dichloropropane            | ug/L  | 25.0        | 27.7       | 111       | 77.0-125     |            |
| 1,1-Dichloropropene            | ug/L  | 25.0        | 30.0       | 120       | 74.0-126     |            |
| 1,3-Dichloropropane            | ug/L  | 25.0        | 23.7       | 94.8      | 80.0-120     |            |
| cis-1,3-Dichloropropene        | ug/L  | 25.0        | 28.2       | 113       | 80.0-123     |            |
| trans-1,3-Dichloropropene      | ug/L  | 25.0        | 23.5       | 94.1      | 78.0-124     |            |
| 2,2-Dichloropropane            | ug/L  | 25.0        | 28.8       | 115       | 58.0-130     |            |
| Ethylbenzene                   | ug/L  | 25.0        | 25.9       | 104       | 79.0-123     |            |
| Hexachloro-1,3-butadiene       | ug/L  | 25.0        | 31.0       | 124       | 54.0-138     |            |
| 2-Hexanone                     | ug/L  | 125         | 111        | 89.1      | 67.0-149     |            |
| Isopropylbenzene (Cumene)      | ug/L  | 25.0        | 27.1       | 109       | 76.0-127     |            |
| p-Isopropyltoluene             | ug/L  | 25.0        | 28.7       | 115       | 76.0-125     |            |
| 2-Butanone (MEK)               | ug/L  | 125         | 152        | 122       | 44.0-160     |            |
| Methylene Chloride             | ug/L  | 25.0        | 26.2       | 105       | 67.0-120     |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/L  | 125         | 118        | 94.1      | 68.0-142     |            |
| Methyl-tert-butyl ether        | ug/L  | 25.0        | 26.9       | 108       | 68.0-125     |            |
| Naphthalene                    | ug/L  | 25.0        | 28.3       | 113       | 54.0-135     |            |
| n-Propylbenzene                | ug/L  | 25.0        | 26.6       | 107       | 77.0-124     |            |
| Styrene                        | ug/L  | 25.0        | 26.2       | 105       | 73.0-130     |            |
| 1,1,1,2-Tetrachloroethane      | ug/L  | 25.0        | 23.9       | 95.6      | 75.0-125     |            |
| 1,1,1,2-Tetrachloroethane      | ug/L  | 25.0        | 23.3       | 93.3      | 65.0-130     |            |
| 1,1,2-Trichlorotrifluoroethane | ug/L  | 25.0        | 27.2       | 109       | 69.0-132     |            |
| Tetrachloroethene              | ug/L  | 25.0        | 25.7       | 103       | 72.0-132     |            |
| Toluene                        | ug/L  | 25.0        | 25.4       | 101       | 79.0-120     |            |
| 1,2,3-Trichlorobenzene         | ug/L  | 25.0        | 29.4       | 118       | 50.0-138     |            |
| 1,2,4-Trichlorobenzene         | ug/L  | 25.0        | 30.3       | 121       | 57.0-137     |            |
| 1,1,1-Trichloroethane          | ug/L  | 25.0        | 28.7       | 115       | 73.0-124     |            |
| 1,1,2-Trichloroethane          | ug/L  | 25.0        | 24.6       | 98.4      | 80.0-120     |            |
| Trichloroethene                | ug/L  | 25.0        | 27.7       | 111       | 78.0-124     |            |
| Trichlorofluoromethane         | ug/L  | 25.0        | 28.1       | 112       | 59.0-147     |            |

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434683

LABORATORY CONTROL SAMPLE: R3428454-1

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,3-Trichloropropane    | ug/L  | 25.0        | 24.0       | 95.9      | 73.0-130     |            |
| 1,2,4-Trimethylbenzene    | ug/L  | 25.0        | 26.8       | 107       | 76.0-121     |            |
| 1,3,5-Trimethylbenzene    | ug/L  | 25.0        | 27.3       | 109       | 76.0-122     |            |
| Vinyl chloride            | ug/L  | 25.0        | 31.5       | 126       | 67.0-131     |            |
| Xylene (Total)            | ug/L  | 75.0        | 78.0       | 104       | 79.0-123     |            |
| Toluene-d8 (S)            | %     |             |            | 95.5      | 80.0-120     |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 102       | 77.0-126     |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 104       | 70.0-130     |            |

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92434683

QC Batch: 483458

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92434654012

SAMPLE DUPLICATE: 2613035

| Parameter        | Units | 92434372001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 52.6                  | 42.6          | 21  | 25         |            |

SAMPLE DUPLICATE: 2613036

| Parameter        | Units | 92434664002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 60.8                  | 62.9          | 3   | 25         |            |

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92434683

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|                                     |   |
|-------------------------------------|---|
| QC Batch: 483950                    | Analysis Method: ASTM D2974-87                    |
| QC Batch Method: ASTM D2974-87      | Analysis Description: Dry Weight/Percent Moisture |
| Associated Lab Samples: 92434683004 |   |

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SAMPLE DUPLICATE: 2615554

| Parameter        | Units | 92434683004<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 21.7                  | 21.3          | 2   | 25         |            |

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SAMPLE DUPLICATE: 2615747

| Parameter        | Units | 92434947001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 25.1                  | 25.3          | 1   | 25         |            |

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92434683

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PAN Pace Analytical National  
PASI-A Pace Analytical Services - Asheville  
PASI-C Pace Analytical Services - Charlotte

### SAMPLE QUALIFIERS

Sample: 92434654013  
[1] Dilution due to foamy matrix.

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.  
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.  
L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
R1 RPD value was outside control limits.  
√2 The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.  
√3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603

Pace Project No.: 92434683

| Lab ID      | Sample ID            | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------|-----------------|----------|-------------------|------------------|
| 92434654012 | PARCEL 5 IDW SOIL    | EPA 3050B       | 484340   | EPA 6010D         | 484491           |
| 92434683004 | PARCEL 7 IDW SOIL    | EPA 3010A       | 486318   | EPA 6010D         | 486336           |
| 92434654013 | PARCEL 5 DECON WATER | EPA 3010A       | 483501   | EPA 6010D         | 483507           |
| 92434683005 | PARCEL 7 IDW WATER   | EPA 3010A       | 486215   | EPA 6010D         | 486246           |
| 92434683004 | PARCEL 7 IDW SOIL    | EPA 7470A       | 486320   | EPA 7470A         | 486372           |
| 92434654013 | PARCEL 5 DECON WATER | EPA 7470A       | 483522   | EPA 7470A         | 483622           |
| 92434683005 | PARCEL 7 IDW WATER   | EPA 7470A       | 486137   | EPA 7470A         | 486371           |
| 92434654012 | PARCEL 5 IDW SOIL    | EPA 7471B       | 483590   | EPA 7471B         | 483618           |
| 92434683005 | PARCEL 7 IDW WATER   | EPA 8260D       | 485748   |                   |                  |
| 92434654013 | PARCEL 5 DECON WATER | EPA 8260D Mod.  | 483855   |                   |                  |
| 92434683005 | PARCEL 7 IDW WATER   | EPA 8260D Mod.  | 485922   |                   |                  |
| 92434654013 | PARCEL 5 DECON WATER | 8260D           | 1307459  | EPA 8260D         | 1307459          |
| 92434654012 | PARCEL 5 IDW SOIL    | ASTM D2974-87   | 483458   |                   |                  |
| 92434683004 | PARCEL 7 IDW SOIL    | ASTM D2974-87   | 483950   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  **Huntersville**  Raleigh  Mechanicsville

**Sample Condition Upon Receipt**

Client Name: **H & H**

Project #: **WO# : 92434654**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: U86-26-19

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No  N/A

Thermometer:  IR Gun ID: 92T048 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 21-36 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 21-36

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Comments/Discrepancy: U86-26-19

| Chain of Custody Present?                            | Yes                                 | No                                  | N/A                                 | 1.  |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-----|
| Chain of Custody Present?                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.  |
| Samples Arrived within Hold Time?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.  |
| Short Hold Time Analysis (<72 hr.)?                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.  |
| Rush Turn Around Time Requested?                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 4.  |
| Sufficient Volume?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 5.  |
| Correct Containers Used?                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 6.  |
| -Pace Containers Used?                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |     |
| Containers Intact?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.  |
| Dissolved analysis: Samples Field Filtered?          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 8.  |
| Sample Labels Match COC?                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.  |
| -Includes Date/Time/ID/Analysis Matrix: <u>MT/SL</u> |                                     |                                     |                                     |     |
| Headspace in VOA Vials (>5-6mm)?                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 10. |
| Trip Blank Present?                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. |
| Trip Blank Custody Seals Present?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |     |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Client requested samples be split up on different reports. Client requested Parcel 5 IDW soil TCLP VOC + TCLP RCRA 8 metal samples be placed on hold. #6.

Person contacted: Alan McCreeg / David Graham Date/Time: 6/26 - 6/27

Project Manager SCURF Review: [Signature]  
 Project Manager SRF Review: [Signature]

Date: 6/27/19  
 Date: 6/27/19

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

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

**\*\*Bottom half of box is to list number of bottle**

Project # **WO# : 92434654**  
 PM: KRG Due Date: 07/03/19  
 CLIENT: 92-Hart Hick

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) |   | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|---|---|--------------------------------------|--|
| 1     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 2     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 3     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 4     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 5     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 6     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 7     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 8     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 9     | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 10    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 11    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |
| 12    | /   | /                                     | /                                     | /                                      | /  | /                                 | /  | /  | /                                       | /  | /                               | /   | /                                 | /                                | /  | /                        | /                            | /                        | /                          | 12                                    | /  | /                                       | /                                       | / | /                                       | /   | /                                    | /  |

MB 6-26-19

MB 6-26-19

| pH Adjustment Log for Preserved Samples |                      |                 |                            |                            |                              |       |
|---|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| Sample ID                               | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|   |                      |                 |                            |                            |                              |       |
|   |                      |                 |                            |                            |                              |       |
|   |                      |                 |                            |                            |                              |       |

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



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

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

\*\*Bottom half of box is to list number of bottle

Project # **WO# : 92434654**

PM: KRG

Due Date: 07/03/19

CLIENT: 92-Hart Hick

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) |  | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|--|---|---|--------------------------------------|--|--|--|
| 1     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 6                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 2     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 3     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 6                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 4     |   |                                       |                                       |  |  |                                   |  |  | 2                                       |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 5     |   |                                       |                                       |  |  |                                   |  | 1  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       | 12                                       |   |   |  |   |   |                                      |  |  |  |
| 6     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  | 2                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 7     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 8     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 9     |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 10    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 11    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 12    |   |                                       |                                       |  |  |                                   |  |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

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





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

### Section A Required Client Information:

Company: Hart & Hickman  
 Address: 2923 S. Tryon Street  
 Charlotte, NC 28203  
 Email: dgraham@hartickman.com  
 Phone: (704)949-5999 Fax

### Section B Required Project Information:

Report To: David Graham  
 Copy To: Alan McCartney  
 Project Name: ROW-603 Soil

### Section C Invoice Information:

Attention: Kevin Godwin  
 Company Name: Pace Analytical  
 Address: 59511  
 Pace Project Manager: kevin.godwin@pacealabs.com  
 Pace Profile #: 1321-18, 19

Regulatory Agency:   
 State / Location: NC

|                     |  |
|---------------------|--|
| Requested Due Date: |  |
| Project #:          |  |

| ITEM # | SAMPLE ID<br>(AZ, 09 / , )<br>Sample Ids must be unique | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED |     | DATE<br>TIME | DATE<br>TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |       |      |     |      |         |          | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | STATE / LOCATION |       |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|---|--|--------------------------------|-----------|-----|--------------|--------------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|----------|---------------|-----|-----------------------------------|-------------------------|------------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
|        |   |  |                                | START     | END |              |              |                           |                 | Unpreserved   | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol |               |     |                                   |                         |                  | Other |  |  |  |  |  |  |  |  |  |  |  |  |
| 1      | S-1   | 5L                                       |                                |           |     | 6/18/16      | 08:20        |                           | 12              | 2             |       |      |     | 4    | 4       | 4        | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 2      | S-2   |  |                                |           |     | 0710         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 3      | S-3   |  |                                |           |     | 0943         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 4      | S-4   |  |                                |           |     | 1015         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5      | S-5   |  |                                |           |     | 1052         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 6      | S-6   |  |                                |           |     | 1130         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 7      | S-7   |  |                                |           |     | 1345         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 8      | S-8   |  |                                |           |     | 1415         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 9      | S-9   |  |                                |           |     | 1455         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 10     | S-10  |  |                                |           |     | 1525         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 11     | S-11  |  |                                |           |     | 1615         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 12     | PARCEL S-12   |  |                                |           |     | 1635         |              |                           |                 |               |       |      |     |      |         |          | X             | X   | X                                 | X                       | X                |       |  |  |  |  |  |  |  |  |  |  |  |  |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---------------------|-------------------------------|------|------|---------------------------|------|------|
|---------------------|-------------------------------|------|------|---------------------------|------|------|

ADDITIONAL COMMENTS: AMC REPORT TO HART HICKMAN CORP OR RESULTS  
 RELINQUISHED BY / AFFILIATION: Alan McCartney  
 DATE: 6/14/16  
 TIME: 08:00  
 ACCEPTED BY / AFFILIATION: Alan McCartney  
 DATE: 06/19/16  
 TIME: 09:40

| SAMPLER NAME AND SIGNATURE |             | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|----------------------------|-------------|-----------|-----------------------|-----------------------------|----------------------|
| Alan McCartney             | [Signature] | 36.2      | Y                     | Y                           | Y                    |

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**

**Required Client Information:**  
 Company: Hart & Hickman  
 Address: 2923 S. Tryon Street  
 Charlotte, NC 28203  
 Email: dgraham@hartickman.com  
 Phone: (704)549-5999  
 Requested Due Date:

**Section B**

**Required Project Information:**  
 Report To: David Graham  
 Copy To: **AMCREDIT @ HART & HICKMAN . COM**  
**DAVID ALLEN @ HART & HICKMAN . COM**  
 Purchase Order #: **ROW-603 Soil**  
 Project Name: ROW-603 Soil  
 Project #:

**Section C**

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote: 59511  
 Pace Project Manager: kevin.godwin@pacelabs.com  
 Pace Profile #: 1321-18, 19

Regulatory Agency

State / Location  
NC

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / , -)<br>Sample Ids must be unique | MATRIX         | CODE | COLLECTED |      | DATE | TIME | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |       |      |     |      |         | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |          |       |  |
|--------|--|----------------|------|-----------|------|------|------|------|------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|---------------|-----|-----------------------------------|-------------------------|----------|-------|--|
|        |  |                |      | START     | END  |      |      |      |      |                           |                 | Unpreserved   | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 |               |     |                                   |                         | Methanol | Other |  |
| 1      | PARCH S DECO WATER   | Drinking Water | DW   | WT        | 6/25 | 150  | 7/7  | 150  | 7/7  | 77                        | 7               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |
| 2      | SED 6-1  | Water          | WT   | WT        | 6/25 | 1810 | 7/7  | 1755 | 7/7  | 133                       | 7               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |
| 3      | SL 6-1   | Waste Water    | WW   | WT        | 6/24 | 0810 | 7/7  | 0935 | 7/7  | 133                       | 4               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |
| 4      | 7-1 (0-2)  | Product        | P    | SL        | 6/24 | 0810 | 7/7  | 0935 | 7/7  | 133                       | 4               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |
| 5      | 7-2 (4-6)  | Oil            | OL   | WT        | 6/25 | 6:25 | 7/7  |      | 7/7  |                           | 2               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |
| 6      | TRIP BLANK 1   | Other          | OT   | WT        | 6/25 |      | 7/7  |      | 7/7  |                           | 2               |               |       |      |     |      |         |               |     |                                   |                         |          |       |  |

| ADDITIONAL COMMENTS      | RELIQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |
|--------------------------|------------------------------|---------|------|---------------------------|----------|------|-------------------|
| PLEASE RT SED 6-1        | <i>[Signature]</i>           | 6/26/14 | 0910 | <i>[Signature]</i>        | 06/26/14 | 0940 | Y                 |
| SL 6-1 on out REPORT     | <i>[Signature]</i>           | 6/26/14 | 1500 | <i>[Signature]</i>        | 6/26/14  | 1500 | Y                 |
| S-1 THROUGH PARCH S DECO | <i>[Signature]</i>           |         |      | <i>[Signature]</i>        |          |      | Y                 |
| WATER ON SECOND REPORT   | <i>[Signature]</i>           |         |      | <i>[Signature]</i>        |          |      | Y                 |

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: ALAN MCCREARY  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed:

PUT 7-1 x 7-2 on  
 SEND PARTS REPORT WITH  
 TRIST OF 7-4 Cover  
 WATER

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

HART HICK

Project #

WO#: 92434683

Courier:

Commercial

Fed EX  
 Pace

UPS

USPS

Other: \_\_\_\_\_

Client

PM: KRG

Due Date: 07/01/19

CLIENT: 92-Hart Hick

Custody Seal Present?  Yes  No

Seals Intact?  Yes  No

Date/Initials Person Examining Contents: MBG 28-17

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 92T048

Type of Ice:

Wet

Blue

None

Cooler Temp (°C): 5.6 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.6

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

|  | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                   | 1.                    |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A           | 2.                    |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | 3.                    |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 4.                    |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                          | 5.                    |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 6.                    |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                      |                       |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                          | 7.                    |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8.                    |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 9.                    |
| -Includes Date/Time/ID/Analysis Matrix: <u>NA/SL</u>   |                       |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 10.                   |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                         | 11.                   |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A           |                       |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Date: 7/1/19

Project Manager SRF Review: \_\_\_\_\_

Date: 7/1/19



Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.06**

Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority:  
 Pace Carolinas Quality Office

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

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

\*\*Bottom half of box is to list number of bottle

Project # **WO# : 92434683**

PM: KRG

Due Date: 07/01/19

CLIENT: 92-Hart Hick

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3S-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (p>9) | BP4C-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) |  | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|---|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|--|---|---|--------------------------------------|--|--|--|
| 1     |   |                                       |                                       |  |  |                                   |   |  | 2                                       |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 2     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  | 6                        |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 3     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 4     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 5     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 6     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 7     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 8     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 9     |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 10    |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 11    |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |
| 12    |   |                                       |                                       |  |  |                                   |   |  |   |  |                                 |   |                                   |                                  |  |                          |                              |                          |                            |                                       |  |   |   |  |   |   |                                      |  |  |  |

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

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



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: Hart & Hickman  
 Address: 2823 S. Tryon Street  
 Charlotte, NC 28203  
 Email: djraham@hart-hickman.com  
 Phone: (704) 549-5999  
 Requested Due Date:

**Section B**  
Report Project Information:

Report To: David Graham  
 Copy To: **PHIL REARBY & HART-HICKMAN.COM**  
 Purchase Order #:  
 Project Name: ROW-503 Soil  
 Project #:

**Section C**  
Invoice Information:

Attention: **ACCOUNTS PAYABLE & HART-HICKMAN.COM**  
 Company Name: **SATE**  
 Address:  
 Pace Project Manager: kevin.godwin@pacelabs.com  
 Pace Profile #: 1321-18-19

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9/, -)<br>Sample IDs must be unique | MATRIX | CODE | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |      |     |      |         |          | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Regulatory Agency | State/Location |
|--------|--|--------|------|-----------|------|---------------------------|-----------------|---------------|------|-----|------|---------|----------|---------------|-----|-----------------------------------|-------------------------|-------------------|----------------|
|        |  |        |      | START     | END  |                           |                 | H2SO4         | HNO3 | HCl | NaOH | Na2S2O3 | Methanol |               |     |                                   |                         |                   |                |
| 1      | PARCEL 7 IDL SOIL  | Soil   | SL   | DATE      | TIME | DATE                      | TIME            | 2             | 2    |     |      |         |          |               |     |                                   |                         |                   |                |
| 2      | PARCEL 7 IDL WATER   | Water  | WT   | 6/27/14   | 1705 |                           |                 | 7             | 7    | 1   | 6    |         |          |               |     |                                   |                         |                   |                |
| 3      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 4      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 5      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 6      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 7      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 8      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 9      |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 10     |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 11     |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |
| 12     |  |        |      |           |      |                           |                 |               |      |     |      |         |          |               |     |                                   |                         |                   |                |

**ADDITIONAL COMMENTS:**  
 HOLD RESULTS DAVIS  
 PARRAM APPROVAL

RELINQUISHED BY/AFFILIATION: *[Signature]* HAH  
 DATE: 6/28/14  
 TIME: 12:25

ACCEPTED BY/AFFILIATION: *[Signature]* MACE  
 DATE: 6/28/14  
 TIME: 12:49

TEMP in C: 5.6

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: ALAN MCCREARY  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed: 6/28/14



## **Appendix F**

### **Non-Hazardous Waste Disposal Manifests**

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

**81310**

### GENERATOR INFORMATION

Generator: NCDOT Parcel 5

Phone: 919-707-6859

Site Address: US Hwy 29

City/State: Greensboro NC

Contact: Gordon Box

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_

Material: Water

Empty Weight (lbs): \_\_\_\_\_

Contaminant: Non-hazardous VOCs

Net Weight (lbs): \_\_\_\_\_

Quantity

1

Tons Drums Pails Sacs Yards Other: \_\_\_\_\_

### TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 215 / 337

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [Signature]

Date: 8-6-19

### FACILITY INFORMATION

**081912**

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Evo Project #: \_\_\_\_\_

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [Signature]

Date: 8-6-19

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107  
www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

**81309**

### GENERATOR INFORMATION

Generator: NCDOT Parcel 5

Phone: 919-707-6859

Site Address: US Hwy 29

City/State: Greensboro NC

Contact: Gordon Box

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_

Material: Soil

Empty Weight (lbs): \_\_\_\_\_

Contaminant: Non-hazardous VOCs

Net Weight (lbs): \_\_\_\_\_

Quantity

1

Tons

Drums

Pails

Sacs

Yards

Other: \_\_\_\_\_

### TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 215/337

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [Signature]

Date: 8-6-19

### FACILITY INFORMATION

**081912**

Evo Project #: \_\_\_\_\_

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [Signature]

Date: 8-6-19

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier