

**Via Email**

February 21, 2020

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

Attention: Mr. Gordon Box

Re: Brownfields Assessment Report  
NC DOT State Project No. R-4707  
WBS Element #36599.1.5  
Greensboro, Guilford County, North Carolina  
H&H Job No. ROW-603

Dear Gordon:

Please find the attached electronic copy of the Brownfields Assessment report for the Pennston Brownfields property 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

# Brownfields Assessment Report Pennston Property

## Brownfields Project # 15010-11-41 Greensboro, Guilford County North Carolina

H&H Job No. ROW-603  
State Project R-4707  
WBS Element #36599.1.5  
February 21, 2020



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**Brownfields Assessment Report  
Pennston Property  
Greensboro, North Carolina  
H&H Project ROW-603**

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**Brownfields Assessment Report  
Pennston Property  
Greensboro North Carolina  
H&H Project ROW-603**

**1.0 Introduction and Background**

Hart & Hickman, PC (H&H) has prepared this Brownfields Assessment report documenting assessment activities performed on the Brownfields property identified as the Pennston Property (No. 15010-11-41) located at 3600 Reedy Fork Parkway in Greensboro, Guilford County, North Carolina. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's May 10, 2019 and November 14, 2019 cost proposals.

The purpose of this assessment was to evaluate the potential for the presence of impacted soil and/or groundwater in proposed right of way and construction easement areas on the subject Brownfields property related to proposed road improvements along Reedy Fork Parkway (State Project R-4707). The Brownfields property encompasses approximately 78 acres of land on five parcels (Guilford County Parcel Numbers 0219587, 0219588, 0219589, 0084331, and 0083998) that are separated by Eckerson Road and Reedy Fork Parkway. The proposed NC DOT construction activities will be conducted on Parcels 0219587, 0219588, 0219589 (also identified as NC DOT Parcels 14, 13, and 15, respectively). 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's plan sheets depicting Parcels 13, 14, and 15 are included in Appendix A.

The NC DOT project will require soil (including potentially impacted soil) to be cut and removed from certain areas in the proposed right of way and construction easements on the Brownfields property. Information provided by NC DOT indicates over 69,000 cubic yards of soil will be cut from the Brownfields property during proposed road construction activities. The road improvement activities will be conducted to the north and south of Reedy Fork Parkway between the eastern and western boundaries of the Brownfields property (see Figure 2).

H&H reviewed previous environmental documents for the Brownfields property including the *Notice of Brownfields Property* and *Brownfields Agreement* (BFA) dated September 23, 2014. The source area for contamination on the Brownfields property is reported to be the Wysong & Miles (Wysong) facility. H&H also reviewed Wysong reports prepared by H&H including the *Phase I Remedial Action Plan* dated April 15, 2010 and the *Off-Site (Pennston Property) Groundwater Assessment* report dated September 15, 2010. Pertinent information from the environmental documents is included in Appendix B and discussed below.

The Brownfields property is located in a mixed undeveloped, industrial, and residential area of Greensboro. It consists primarily of undeveloped wooded land with a single-story office building and asphalt-covered parking area associated with the Reedy Fork Ranch subdivision. The property will be redeveloped by Reedy Fork Investments, LLC for commercial, retail, and office use. The property has been wooded and undeveloped since at least 1937, with the exception of construction of the single-story office building in 2002 on the parcel located east of Eckerson Road. Groundwater on the Brownfields property is contaminated from a release associated with the Wysong facility which is located topographically upgradient and southwest of the Brownfields property. No release of regulated substances is known or suspected to have occurred on the Brownfields property.

Wysong manufactures metal working machinery and has been in operation since the 1960s. A release of 1,1,1-trichloroethane (1,1,1-TCA) was discovered at the Wysong facility in 1987. Multiple assessment activities have been conducted at Wysong including groundwater assessment activities on the Brownfields property. Nine monitoring wells (TW-1, TW-15, TW-16, PWR-1, PWR-2, PWR-4, PWR-7, PWR-8, and BR-1) associated with the Wysong release have been installed on the Brownfields property to date. TW-15 is located within proposed NC DOT work areas near the intersection of Eckerson Road and Reedy Fork Parkway. Volatile organic compounds (VOCs), including 1,1,1-TCA, 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane, 1,2-dichloroethane, and 1,4-dioxane, have been detected above the 15A NCAC 2L .0202 Groundwater Quality Standards (2L Standards) in groundwater on the Brownfields property. The depth to groundwater ranges from approximately 23 to 29 ft below ground surface

(bgs) near proposed DOT work areas. Previously installed monitoring well locations and historical groundwater data are shown on the Brownfields survey plat in Appendix B.

Certain land use restrictions set forth in the BFA will affect proposed NC DOT road construction activities. Land use restrictions in the BFA indicate that no activities that encounter, expose, remove, or use groundwater may occur on the Brownfields property without NC DEQ's written approval. Soil may not be disturbed on the Brownfields property at a depth greater than 15 ft bgs without NC DEQ's written approval. NC DOT plans indicate that soil will be cut to depths near 25 ft bgs on the Brownfields property. Therefore, an Environmental Management Plan (EMP) will be required for management of soil and groundwater (if encountered) during road construction activities.

The results of the assessment activities will be used to develop an EMP for proposed road construction activities and to determine the proper disposition of impacted soil and/or groundwater if encountered during road construction activities. Information provided by NC DOT indicates over 69,000 cubic yards of soil will be cut from the Brownfields property during proposed road construction activities. Of this amount, approximately 10,000 cubic yards in NC DOT work areas will be cut below 15 ft bgs. The soil to be cut will be managed in accordance with the EMP.

Based on discussion between H&H, NC DOT, and Joselyn Harriger of the NC DEQ Brownfields Program, H&H prepared a *Brownfields Assessment Work Plan (Revision 1)* (Work Plan) dated October 4, 2019 to describe sampling protocol for assessment of soil and groundwater on the Brownfields property. The assessment activities in the Work Plan were developed to characterize soil that is excavated from below 15 ft bgs for potential reuse as fill on the Brownfields property, to characterize soil for potential off-site disposition, and to evaluate water levels and current groundwater concentrations for potential management of groundwater during construction activities. The Work Plan was approved in NCDEQ's Work Plan Approval Letter dated October 15, 2019.

As part of assessment activities, five permanent Type II monitoring wells were installed in NC DOT work areas near Reedy Fork Parkway on the Brownfields property. The assessment activities were conducted in general accordance with the NC DEQ's Inactive Hazardous Sites Branch (IHSB) Guidelines for Assessment and Cleanup (Guidelines) and most recent versions of the U.S. Environmental Protection Agency (EPA) Region IV Science and Ecosystem Support Division (SESD) Field Branches Quality System and Technical Procedures guidance. The Brownfields assessment activities are described below.

## **2.0 Soil Assessment**

### **2.1 Soil Sampling**

H&H contracted with Innovative Environmental Technologies (IET) of Concord, North Carolina to advance the monitoring well borings. On November 19 through 21, 2019, five borings SB-1 (MW-1), SB-2 (MW-2), SB-3 (MW-3), SB-4 (MW-4), and SB-5 (MW-5) were advanced in proposed NC DOT work areas on the Brownfields property using a direct push technology (DPT) drill rig. Prior to conducting monitoring well borings, underground utilities were marked by the NC 811 public utility locator and a private utility locator. Borings were also cleared up to 5 ft bgs by hand auger.

As mentioned above, the BFA indicates that soil may not be disturbed at the site at a depth of greater than 15 ft bgs without NC DEQ's prior written approval. NC DOT plans indicate cut depths below 15 ft on the Brownfields property. The estimated cut depth is approximately 21.5 ft bgs near SB-1 (MW-1), 24.5 ft bgs near SB-2 (MW-2), 14 ft bgs (plus 3 additional ft for drainage) near SB-3 (MW-3), 18.5 ft bgs (plus 3.5 additional ft for drainage) near SB-4 (MW-4) and 20 ft bgs (plus 3 additional ft for drainage) near SB-5 (MW-5). During the well installations, soil from each boring was screened 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 field screening, there were no significant indications of impacts in borings advanced at the site. Soil samples were collected at or near the depths proposed in the work plan. Samples were collected at depths of 15-16.5 ft in SB-1, 15-17 ft and 22-24 ft in SB-2, 15-17 ft and 17-19 ft in SB-3, 15-17 ft and 19-21 ft in SB-4, and 15-17 ft and 19-21 ft in SB-5. Due to the depth of hollow stem auger refusal at 16.5 ft bgs in boring SB-1, only one soil sample was collected below 15 ft bgs in that boring. In lieu of



collecting two samples from boring SB-1 as proposed in the Work Plan, an additional soil sample was collected below 15 ft bgs (17-19 ft bgs) in SB-3. Because there were no indications of potential impacts in the borings based on field screening, no additional soil samples were collected from the monitoring well borings. GPS coordinate data for the monitoring well borings are presented in Table 1. Boring locations are shown on Figure 3. Soil boring logs are included in Appendix C.

H&H submitted a total of nine soil samples from the five monitoring well boring locations 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 cooler upon collection and were subsequently submitted to Pace Analytical Services, LLC (Pace) of Huntersville, NC for analysis of VOCs using EPA Method 8260, 1,4-dioxane using EPA Method 8260 Select Ion Monitoring (SIM), semi-VOCs (SVOCs) using EPA Method 8270, and RCRA metals using EPA Methods 6010/7471. Select samples were also analyzed for hexavalent chromium using EPA Method 7199. Soil sample depths and analytical results are summarized in Table 2. Laboratory analytical data sheets and chain-of-custody documentation are provided in Appendix D. The analytical results are discussed below.

## 2.2 Soil Analytical Results

Concentrations of 1,4-dioxane (0.0047 J mg/kg and 0.014 mg/kg) were detected in soil samples SB-2 (15-17 ft) and SB-2 (22-24 ft), respectively. The concentration of 1,4-dioxane (0.014 mg/kg) in SB-2 (22-24 ft) exceeds the NC DEQ Protection of Groundwater (POG) Preliminary Soil Remediation Goal (PSRG) of 0.012 mg/kg.

Low level metals were detected in each of the samples collected. An elevated selenium concentration was detected in sample SB-2 (22-24 ft), above the POG PSRG and more than two times published background values for North Carolina soils. However, the values for North Carolina are based on a limited data set and concentrations are within the range of published background values for eastern United States soils (Dragun and Chekiri, 2005). Due to potentially elevated chromium detections in soil samples SB-2 (22-24 ft) and SB-3 (17-19 ft), these samples

were also analyzed for hexavalent chromium. A low level detection of hexavalent chromium (0.870 J mg/kg) was detected in SB-3 (17-19 ft). The hexavalent chromium detection exceeds the Residential PSRG of 0.31 mg/kg. Because there are no known sources of hexavalent chromium at the site, the hexavalent chromium detection appears to be naturally occurring. No other metals were detected above their respective PSRGs. H&H considers the other metals detections indicative of naturally occurring background conditions. No SVOCs were detected above laboratory method detection limits in soil samples collected at the site.

Based on the above soil sample results, H&H estimates there are roughly 10,000 cubic yards (15,000 tons) of soil impacted with 1,4-dioxane and hexavalent chromium (near boring SB-3) between 15 ft and planned NC DOT cut depths on the Brownfields property. The approximate area of impacted soil is shown on Figure 3.

### **3.0 Groundwater Assessment**

#### **3.1 Groundwater Sampling**

During assessment activities, soil borings SB-1 through SB-5 were converted into permanent monitoring wells MW-1 through MW-5, respectively. NC DOT requested that the wells be completed as permanent. As required by Guilford County, H&H obtained a Groundwater Monitoring Well Permit (No. 014-19-MW5-RW0) from the Guilford County Board of Health Division of Environmental Health prior to installing the monitoring wells at the site.

The monitoring well borings were installed with the DPT drill rig using hollow stem auger and/or air rotary drilling methods. Well depths were selected to extend to depths slightly below the planned cut depths to evaluate the depth to groundwater and potential groundwater contaminant concentrations. Monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-5 were installed to total depths of 30 ft bgs, 32 ft bgs, 31 ft bgs, 31 ft bgs, and 30 ft bgs, respectively, with 2-inch diameter PVC riser and 15 ft of 0.010-inch slotted PVC well screens. Sand filter pack was placed from the bottom of the well boring to approximately 2 ft above the top of the well screen, and hydrated bentonite was placed above the sand filter pack. Monitoring wells MW-1 and MW-5 were completed with flush-mount manhole covers and wells MW-2 through MW-4 were completed with stickup well covers.

Once the monitoring wells were installed, IET developed the wells by removing a minimum of three to five well volumes. MW-3 and MW-5 were dry and were not developed. After development activities, the wells were allowed to equilibrate, and an electronic water level meter was used to measure the depth to groundwater relative to the top of casing. The depth to water ranged from approximately 23.30 ft to 29.23 ft in wells MW-1, MW-2 and MW-4. Monitoring well construction data and groundwater elevation data are included in Table 1.

Groundwater samples were then collected from wells MW-1, MW-2 and MW-4 utilizing low-flow/low stress purging techniques using a bladder pump or peristaltic pump and dedicated polyethylene tubing. Groundwater was removed at a rate no greater than 200 milliliters per minute. H&H utilized a water quality meter to collect measurements of pH, temperature, dissolved oxygen, oxidation reduction potential, turbidity, and specific conductivity at approximate five-minute intervals during the purging process. Purging was considered complete when the parameters stabilized (pH +/- 0.1 SU, conductivity varied no more than 5%). The Groundwater Sampling Records are included in Appendix E.

Once groundwater parameters stabilized, groundwater samples were collected directly into laboratory supplied sample containers. The samples were delivered to Pace under standard chain of custody protocol for analysis of VOCs by EPA Method 8260, 1,4-dioxane by EPA Method 8260 SIM, and RCRA metals by EPA Methods 6010/7470. Laboratory analytical data sheets and chain-of-custody documentation are provided in Appendix D. The groundwater sample analytical results are summarized in Table 3. The analytical results are discussed below.

### **3.2 Groundwater Analytical Results**

VOCs including 1,1-dichloroethane, 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, and/or 1,4-dioxane were detected in the groundwater samples collected from MW-2 and MW-4. The concentration of 1,2-DCA (0.63 J ug/L) detected in MW-2 exceeds the 2L Standard of 0.4 ug/L. The concentrations of 1,4-dioxane (39.9 ug/L and 8.9 ug/L) detected in wells MW-2 and MW-4, respectively, exceed the 2L Standard of 3.0

ug/L. No other VOCs exceed the 2L Standard. A low level concentration of diethylphthalate was detected in MW-4 below the 2L Standard. Low level metals including barium and/or chromium were also detected in the groundwater samples collected from wells MW-1, MW-2 and MW-4 below the 2L Standards.

NC DEQ regulations allow construction dewatering to surface water if surface water standards are not contravened. As such, the groundwater concentrations noted above were also compared to the NC Water Quality Standards for Surface Water (2B Standards). A stream is present on the western portion of the Brownfields property. This surface water body is alternately titled in NC Division of Water Resources (NC DWR) references as “Unnamed Tributary at Camp Herman” and “Smith Branch Reedy Fork” and is defined as Class WS-V, NSW. Based on the classification of the receiving water body downgradient of the site, concentrations detected in groundwater were compared to criteria applicable for water supply classifications. Per NC DWR guidance (NC DWR Surface Water Quality Standards, Criteria & In-Stream Target Values table, June 2019), if no 2B Standards exist for certain compounds, concentrations were compared to the lower of the EPA National Recommended Water Quality Criteria or NC In-Stream Target Values. Based on this comparison, the concentrations of 1,4-dioxane (39.9 ug/L and 8.9 ug/L) detected in wells MW-2 and MW-4, respectively, exceed the In-Stream Target Value of 0.35 µg/L.

Based on laboratory analytical results for wells MW-2 and MW-4, groundwater is impacted above 2L Standards and NC surface water criteria in the site area. If impacted groundwater is encountered and dewatering activities are required during NC DOT construction activities, the groundwater should be properly managed via an NPDES permit or via containerization and disposed at a permitted facility. The estimated horizontal extent of impacted groundwater (based on historical Wysong data and current groundwater data) is shown on Figures 2 and 4.

#### **4.0 Investigative Derived Waste**

Soil cuttings and purge/decontamination water generated during the soil and groundwater sampling activities were containerized in 55-gallon drums. A composite soil sample and a

composite groundwater sample were collected from the IDW soil and groundwater drums. The composite soil sample (IDW SOIL) was analyzed for VOCs, 1,4-dioxane, SVOCs, and RCRA metals analysis using EPA Methods 8260, 8260 SIM, 8270, and 6010/7470. Low level metals and 1,4-dioxane were detected in the composite soil sample. A composite sample (IDW-GW) of the IDW water drums was analyzed for VOCs, 1,4-dioxane, SVOCs, and total RCRA metals using EPA Methods 8260, 8260 SIM, 8270, and 6010/7471, respectively. Low level VOCs, metals, and di-n-butylphthalate, were detected in the water sample collected from the IDW water drums. 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 D. The non-hazardous waste disposal manifests are included in Appendix F.

## **5.0 Quality Assurance/Quality Control**

For quality assurance/quality control (QA/QC) purposes, field QA/QC samples were analyzed along with the investigative parent samples to determine the variability introduced in sampling, handling, shipping, and analysis. One trip blank was submitted with the groundwater shipment and two trip blanks were submitted with soil sample shipments for analysis of VOCs by EPA Method 8260. To evaluate the reproducibility of the sample results, H&H collected one duplicate soil sample and one duplicate groundwater sample that were submitted for the same analysis as the parent sample.

### Trip Blanks

Trip blanks consist of certified-clean sample containers filled with analyte-free water that were not opened in the field. Trip blanks were prepared by the laboratory and traveled to the site with the empty sample bottles and back from the site with the collected samples in an effort to simulate sample handling conditions and the potential for external contaminants. The trip blanks contained sample bottles for VOC analysis. Laboratory analytical results of the soil trip blank collected on November 20, 2019 indicated the presence of hexachloro-1,3-butadiene at a

concentration of 1.1 µg/L. No other VOCs were detected above method detection limits in the trip blanks.

### Field Duplicates

Field duplicate samples were collected to evaluate the precision of the field sampling procedures, sample matrix variability, and analytical reproducibility. The samples were analyzed for the same parameters as the original sample, and the analytical results were compared with those of the original sample. The analytical results of the original samples and the duplicate samples were used to evaluate the cumulative precision due to potential limitations of the analytical method, sample matrix, and sample collection techniques. The duplicate sample results for the soil sample and groundwater sample were comparable to the original samples. The results of the duplicate samples collected are presented in the summary tables.

### Additional QA/QC

Upon review of the laboratory analytical reports, H&H reviewed the qualifiers noted for select compounds for select samples. After a review of the QA/QC data in each laboratory report, the qualifiers do not appear to affect the quality of the data produced. It is noted that the soil hexavalent chromium samples were analyzed outside of hold times.

## **6.0 Summary and Regulatory Considerations**

H&H has completed soil and groundwater assessment activities at the Pennston Brownfields property (NC DOT Parcels 13, 14, and 15) located in Greensboro, Guilford County, North Carolina. The Brownfields property encompasses approximately 78 acres of land on five parcels that are separated by Eckerson Road and Reedy Fork Parkway. A review of historical environmental documents indicates groundwater on the Brownfields property is contaminated from a release associated with the Wysong facility that is located topographically upgradient and southwest of the Brownfields property. Groundwater impacts are located within proposed NC DOT work areas on Parcels 13, 14 and 15. H&H collected soil and groundwater samples from five monitoring wells on the Brownfields property to evaluate the potential for impacted soil and/or groundwater in proposed right of way and construction easement areas related to proposed NC DOT road improvements along Reedy Fork Parkway.

Analytical results of soil samples indicate low level concentrations of 1,4-dioxane and hexavalent chromium above the NC DEQ PSRGs near boring locations SB-2 and SB-3, respectively. No soil concentrations exceed Industrial PSRGs. Other low level metals were also detected in each of the soil sample locations. These metal concentrations appear to be naturally occurring. H&H estimates there are roughly 10,000 cubic yards (15,000 tons) of impacted soil between 15 ft bgs and NC DOT planned cut depths on the Brownfields property.

Analytical results of groundwater samples indicate concentrations of VOCs including 1,2-DCA and/or 1,4-dioxane above 2L Standards in monitoring wells MW-2 and MW-4. The 1,4-dioxane concentrations in MW-2 and MW-4 also exceed NC surface water criteria. Other VOCs and/or diethylphthalate were also detected in MW-2 and MW-4 below screening levels. Metals were also detected in the samples from each well; however, detected metals concentrations appear to be naturally occurring and don't exceed 2L Standards.

NC DOT plans indicate proposed cuts and fills for road improvement activities, and installation of proposed drainage structures in proposed NC DOT work areas on the Brownfields property. Impacted soil will be encountered during the road construction activities. Impacted groundwater may also be encountered during road construction activities. As indicated in the Brownfields Agreement, soil may not be disturbed on the Brownfields property at a depth greater than 15 ft bgs and no activities that encounter, expose, remove, or use groundwater may occur without NC DEQ's written approval. Impacted soil that is cut during the road construction activities will be re-used as fill material on the Brownfields property or properly dispose at an off-site facility. If impacted groundwater is encountered and dewatering activities are required during NC DOT construction activities, the water should be properly managed via an NPDES permit or containerized and disposed at permitted facility.

An EMP will be prepared for management of soil and groundwater (if encountered) during road construction activities. The EMP will be submitted to the NC DEQ Brownfields Program for approval and no soil cuts below 15 ft should occur until the EMP is approved. Contingencies will be included in the EMP to manage other suspected impacts (if identified) during the road construction activities.

## 7.0 Signature Page

This report was prepared by:

DocuSigned by:  
*David Graham*  
9F6FAD6E6BA34BE...

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



This report was reviewed by:

DocuSigned by:  
*Matt Bramblett*  
CBCA88CDF0E547B...

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

Not considered final unless all signatures are completed.



**Table 1 (Page 1 of 1)**  
**Summary of Well Construction and Water Level Data**  
**Pennston Brownfields Property**  
**Greensboro, Guilford County, North Carolina**  
**H&H Job No. ROW-603**

<b>Monitoring Well ID</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Screened Interval (ft bgs)</b>	<b>Total Depth (ft bgs)</b>	<b>Depth to Water (ft TOC) 11/22/19</b>
MW-1	36.1727680	-79.7103046	15 - 30	30	23.30
MW-2	36.1723693	-79.7097359	17 - 32	32	29.23
MW-3	36.1718009	-79.7093579	16 - 31	31	Dry
MW-4	36.1719994	-79.7108018	16 - 31	31	29.05
MW-5	36.1716812	-79.7101881	15 - 30	30	Dry

**Notes:**

1) Well location data collected by H&H using a Trimble GeoExplorer 6000 handheld GPS unit.

bgs = Below ground surface

ft TOC = Depth in feet below top of well casing.

Monitoring wells MW-1 and MW-5 were completed with flush mount manhole covers. MW-2, MW-3, and MW-4 were completed with sitck-up well covers.

The TOC's for monitoring wells MW-2, MW-3, and MW-4 are approximately 1.5 ft, 1.8 ft, and 1.5 ft above ground surface, respectively.

**Table 2 (Page 1 of 1)**  
**Soil Analytical Results**  
**Pennston Brownfields Property**  
**Greensboro, Guilford County, North Carolina**  
**H&H Job No. ROW-603**

Sample ID	SB-1	SB-2		SB-3		SB-4		SB-5		DUP-1-Soil (SB-5)	NCDEQ Residential PSRG <sup>1</sup>	NCDEQ Industrial PSRG <sup>2</sup>	NCDEQ POG PSRG <sup>3</sup>		
	Sample Depth (ft)	15-16.5	15-17	22-24	15-17	17-19	15-17	19-21	15-17	19-21					
Sample Date	11/19/2019	11/19/2019	11/19/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019				
<b><u>VOCs (8260) (mg/kg)</u></b>	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	--	--	--		
<b><u>SVOCs (8270) (mg/kg)</u></b>	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	--	--	--		
<b><u>VOCs (8260 SIM) (mg/kg)</u></b> 1,4-Dioxane	<0.0025	0.0047 J	<b>0.014</b>	<0.0040	<0.0042	<0.0031	<0.0024	<0.0037	<0.0032	<0.0038	5.4	25	0.012	<b>Background<sup>4</sup></b>	
<b><u>RCRA Metals (6010/7471) (mg/kg)</u></b>														<b>Range</b>	<b>Mean</b>
Arsenic	<0.52	0.78 J	3.3 J	1.5	<3.5	<0.53	<0.43	<0.65	<0.55	<0.61	0.68	3	5.8	1.0 - 18	4.8
Barium	355	453	468	169	323	366	319	96.9	55	64	3,100	47,000	580	50 - 1,000	356
Cadmium	<0.052	<0.061	<0.32	<0.070	<0.35	0.073 J	0.069 J	<0.065	<0.055	<0.061	14	200	3	1.0 - 10	4.3
Chromium <sup>5</sup>	18.6	21.4	167	31.6	119	14.5	19.6	9.8	11.8	13.2	23,000	350,000	360,000	7.0 - 300	65
Lead	1.2	7.2	8.3	11.1	13.1	1.3	1.5	7.0	2.2	1.6	400	800	270	N.D. - 50	16
Mercury	0.0024 J	0.012	0.0053	0.0044	0.02	<0.0017	<0.0011	0.0042	<0.0013	0.0029	2.3	9.7	1	0.03 - 0.52	0.121
Selenium*	1.0 J	0.87 J	<b>3.7 J</b>	<0.70	<3.5	<0.53	0.64 J	0.86 J	0.71 J	0.63 J	78	1,200	2.1	<0.1 - 0.8	0.42
Silver	<0.26	<0.31	<1.6	<0.35	<1.8	<0.26	<0.22	<0.33	<0.28	<0.31	78	1,200	3.4	N.D. - 5.0	--
<b><u>Hexavalent Chromium (7199) (mg/kg)</u></b> Hexavalent Chromium	NA	NA	<0.327	NA	<u>0.870 J</u>	NA	NA	NA	NA	NA	0.31	6.5	3.8		

**Notes:**

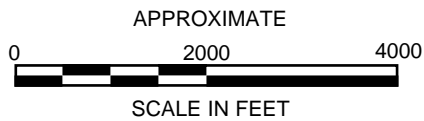
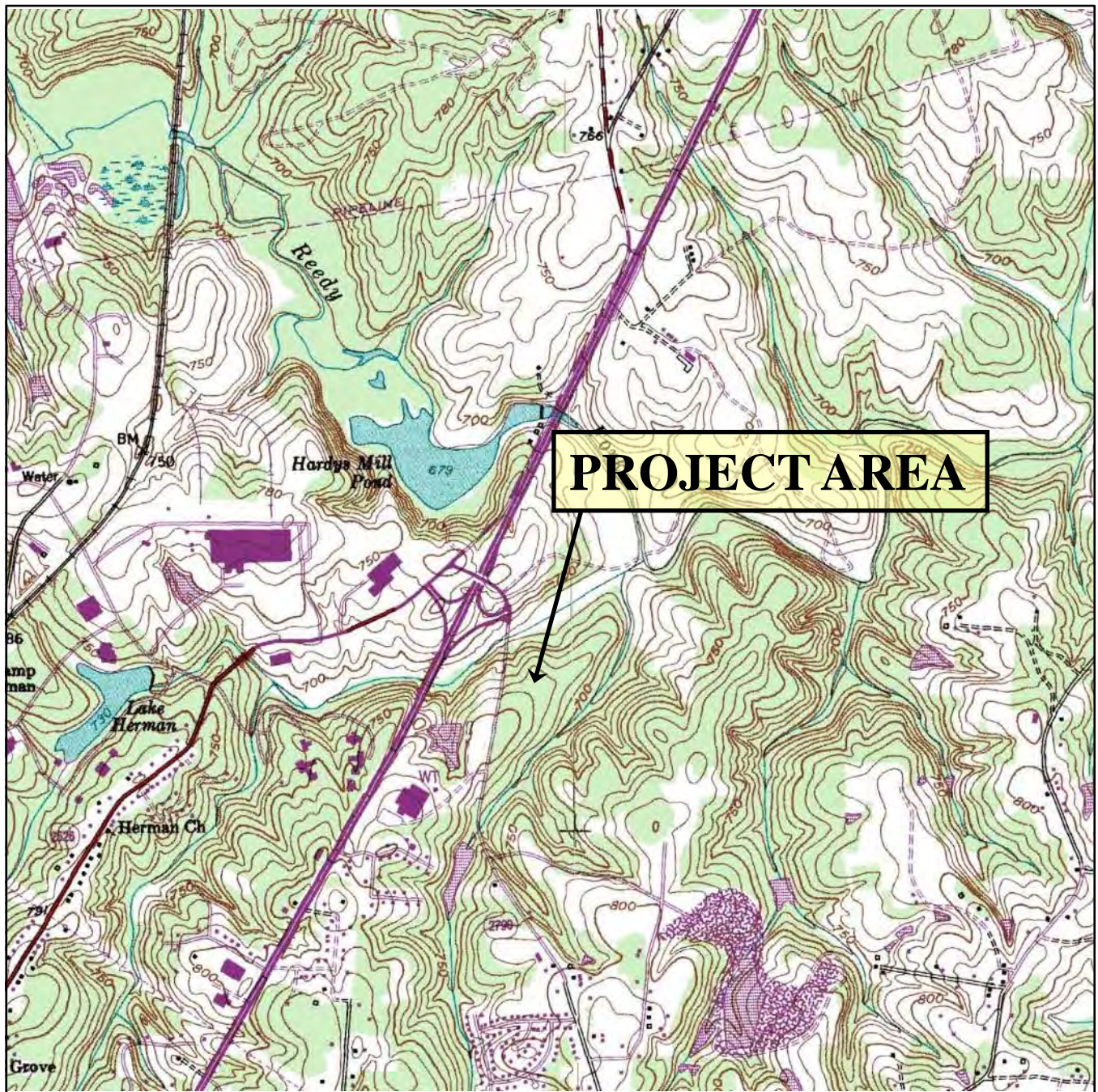
1. NC DEQ Residential Health-Based Preliminary Soil Remediation Goals (PSRGs) (December 2019).
  2. NC DEQ Industrial Health-Based PSRG (December 2019).
  3. NC DEQ Protection of Groundwater (POG) PSRG (December 2019).
  4. Range and mean values of background metals for North Carolina soils taken from Elements in North American Soils by Dragun and Chekiri, 2005.
  5. Screening levels for chromium are for chromium III.
- \* = Selenium concentrations in bold are more than two times background levels for published NC soils. However, note that the NC values are based on a limited data set and concentrations are within the range of values published for eastern US soils (<0.1 to 3.9).
- mg/kg = milligrams per kilogram; VOCs = Volatile Organic Compounds
- Bold** = value exceeds Protection of Groundwater PSRG (and twice background value for metals)
- Underline = value exceeds Residential Health-Based PSRG
- <MDL = All values below Method Detection Limit; SIM = Select Ion Monitoring
- J = Estimated concentration between laboratory Reporting Limit and Method Detection Limit
- Hexavalent chromium samples were analyzed outside of hold time.

**Table 3 (Page 1 of 1)**  
**Groundwater Analytical Results**  
**Pennston Brownfields Property**  
**Greensboro, Guilford County, North Carolina**  
**H&H Job No. ROW-603**

Sample ID Sample Date	MW-1 11/22/2019	MW-2 11/22/2019	MW-4 11/22/2019	DUP-2-GW (MW-4) 11/22/2019	NC 2L Standards <sup>1</sup>	NC 2B Standards <sup>2</sup>	Water Quality Criteria <sup>3</sup>
<b><u>VOCs (8260) (ug/L)</u></b>							
1,1-Dichloroethane	<0.27	3.2	0.91 J	0.89 J	6	NE	6
1,2-Dichloroethane	<0.34	<b>0.63 J</b>	<0.34	<0.34	0.4	NE	9.9
1,1-Dichloroethene	<0.24	55.9	23.5	22.3	350	NE	300
1,1,1,-Trichloroethane	<0.18	8.4	1.1	1.1	200	NE	10,000
1,1,2-Trichloroethane	<0.24	0.32 J	<0.24	<0.24	0.6*	NE	0.55
<b><u>SVOCs (8270) (ug/L)</u></b>							
Diethylphthalate	<2.4	<2.4	6.9 J	10 J	6,000	NE	600
<b><u>VOCs (8260 SIM) (ug/L)</u></b>							
1,4-Dioxane	<1.2	<b><u>39.9</u></b>	<b><u>8.9</u></b>	<b><u>7.4</u></b>	3	NE	0.35
<b><u>RCRA Metals (6010/7470) (ug/L)</u></b>							
Barium	504	40.6	126	118	700	1,000	---
Chromium <sup>4</sup>	8.8	<1.0	<1.0	<1.0	10	37.13	---

**Notes:**


1. NC DEQ 15A NCAC 2L .0202 Groundwater Quality Standards - April 2013
  2. NC DEQ Water Quality Standards for Surface Waters - Class WS-V, NSW (June 2019).
  3. Lower of EPA Recommended Water Quality Criteria for Aquatic Life & Human Health - Water Supply or NC In-Stream Target Values for Surface Water - Water Supply (June 2019)
  4. 2B Standard shown for chromium is for chromium III; no confirmed sources of chromium VI have been identified in the area. Standard derived using DEQ Hardness-Dependent Metal Calculator dated June 2019 and DEQ published median hardness for receiving stream (alternately titled Unnamed Tributary at Camp Herman and Smith Branch-Reedy Fork) of 43 milligrams per liter. The nearest discharge is to a Class WS-V surface water body (alternately titled Unnamed Tributary at Camp Herman and Smith Branch-Reedy Fork). Based on the classification of the receiving water body, surface water standards and criteria are based on water supply classification.
- \* = NC DEQ Interim Maximum Allowable Concentration (August 1, 2010)  
EPA Method follows parameter in parenthesis  
ug/L = micrograms per liter. NE = Not established.  
VOCs = Volatile Organic Compounds; SVOCs = semi-VOCs  
**Bold** indicates above 2L Standard; Underline exceeds 2B Standard or Water Quality Criteria.



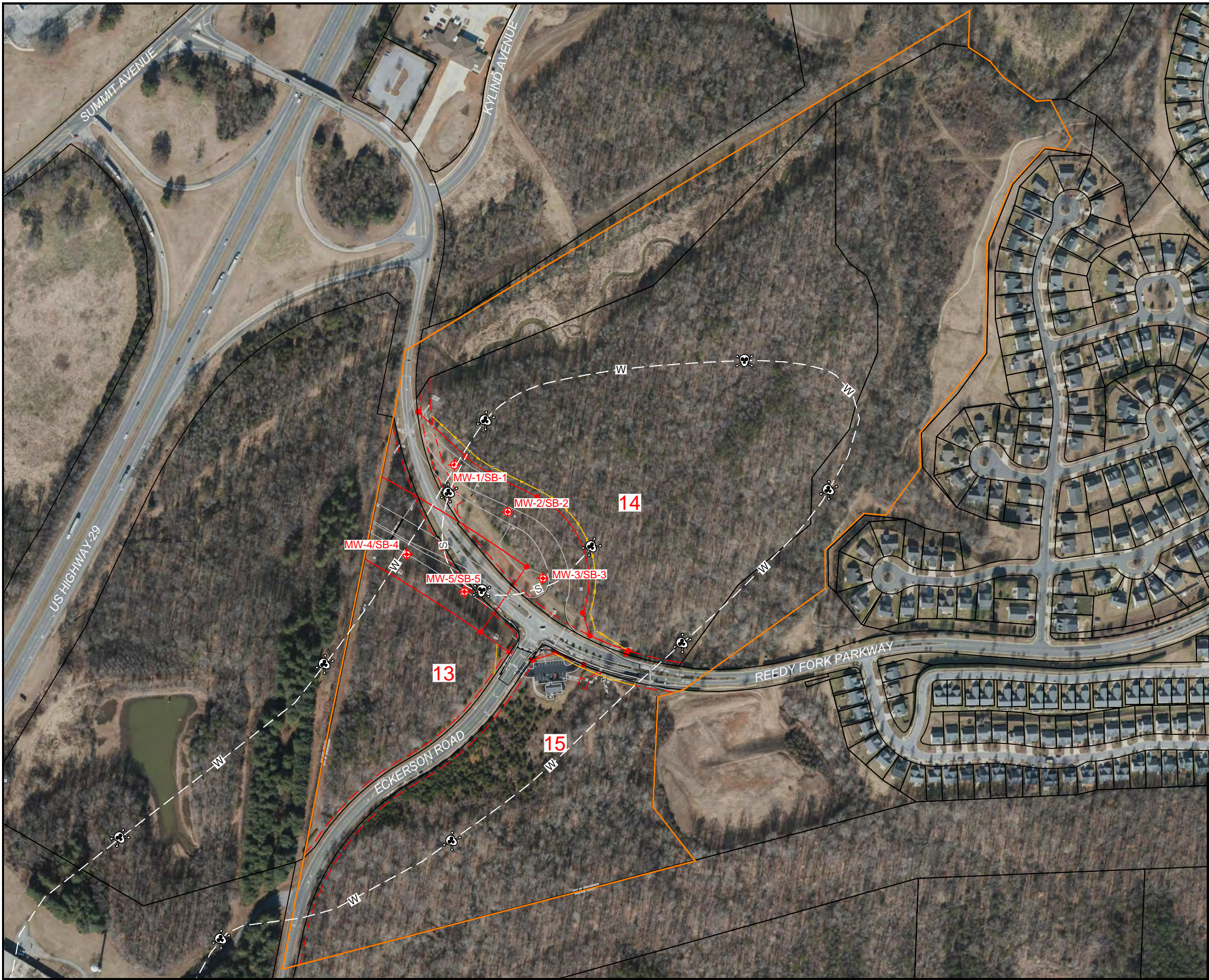
U.S.G.S. QUADRANGLE MAP

**BROWNS SUMMIT, NORTH CAROLINA, 1994**

QUADRANGLE  
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	<b>PROJECT LOCATION MAP</b>	
PROJECT	BROWNFIELDS PROJECT #15010-11-41 3600 REEDY FORK PARKWAY GREENSBORO, NORTH CAROLINA	
	 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f)	
	SMARTER ENVIRONMENTAL SOLUTIONS	
DATE:	2-12-20	REVISION NO: 0
JOB NO:	ROW-603	FIGURE: 1

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-603\Guilford County Phase II Investigations\Brownfields Assessment\Figures\Parcels-row603-R1-Site Map.dwg, FIG 2, 2/13/2020 2:23:08 PM, jdemmer



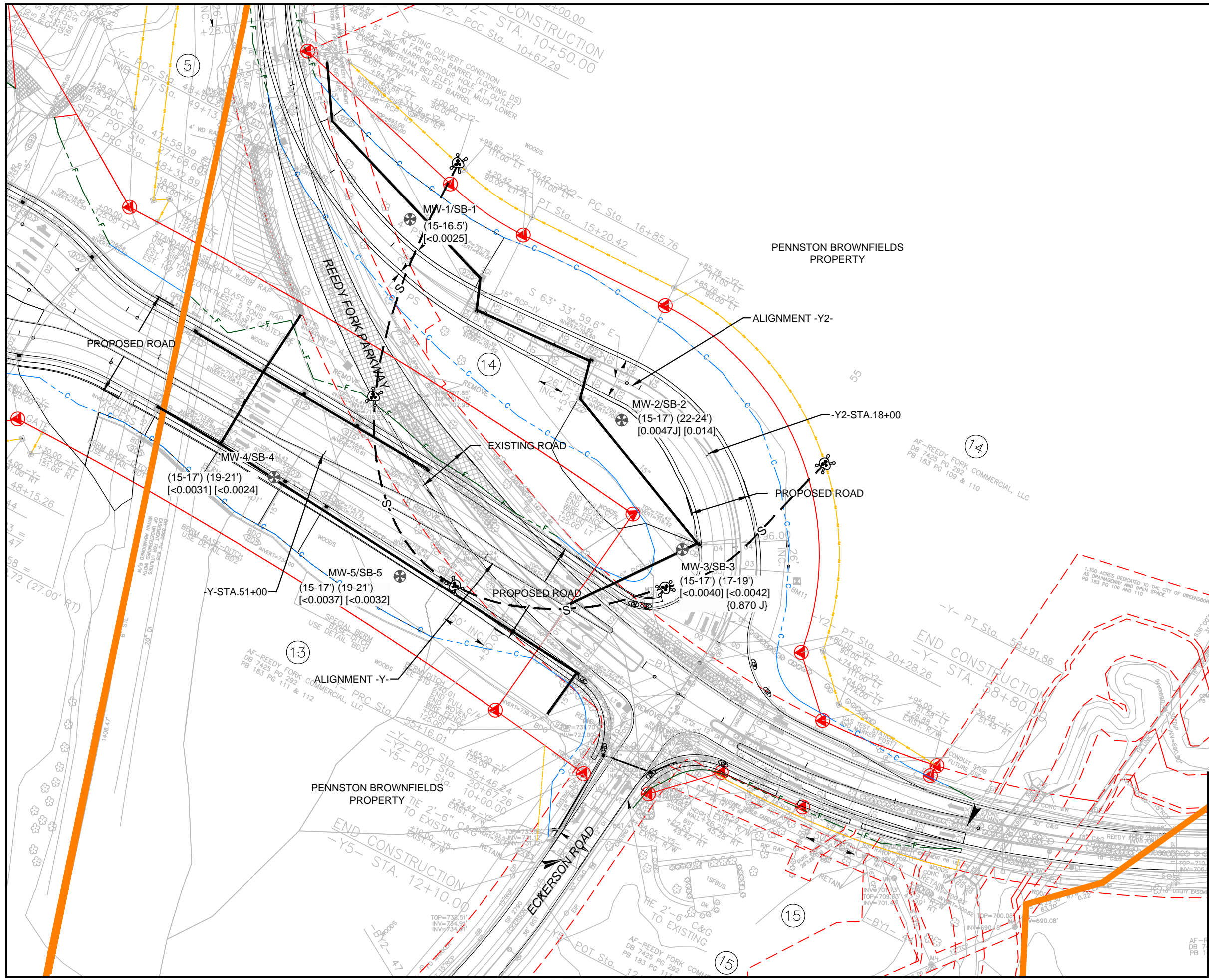
LEGEND

- APPROXIMATE BROWNFIELDS PROPERTY BOUNDARY
- EXISTING RIGHT-OF-WAY.
- PROPOSED ROAD
- PROPOSED RIGHT-OF-WAY
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED UTILITY EASEMENT
- MONITORING WELL AND SOIL SAMPLE LOCATIONS
- 14** NC DOT PARCEL ID
- W- KNOWN GROUNDWATER CONTAMINATION
- S- KNOWN SOIL CONTAMINATION

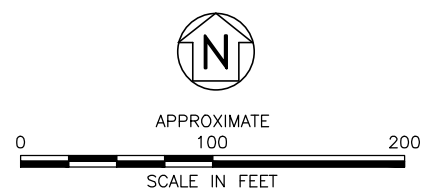


TITLE		SITE MAP	
PROJECT		BROWNFIELDS PROJECT #15010-11-41 ECKERSON ROAD & REEDY FORK PARKWAY GREENSBORO, NORTH CAROLINA	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 2-13-2020	REVISION NO. 0		
JOB NO. ROW-603	FIGURE NO. 2		

I:\HARTHICKMAN\LOCAL\Shares\MasterFiles\AAA-Master\Projects\NC DOT Right-of-Way - ROW-603\ROW-603\Brownfields Assessment\Figures\Parcels-row603-R1.dwg, FIG 3 SOIL, 2/21/2020 3:30:22 PM, jdemmer

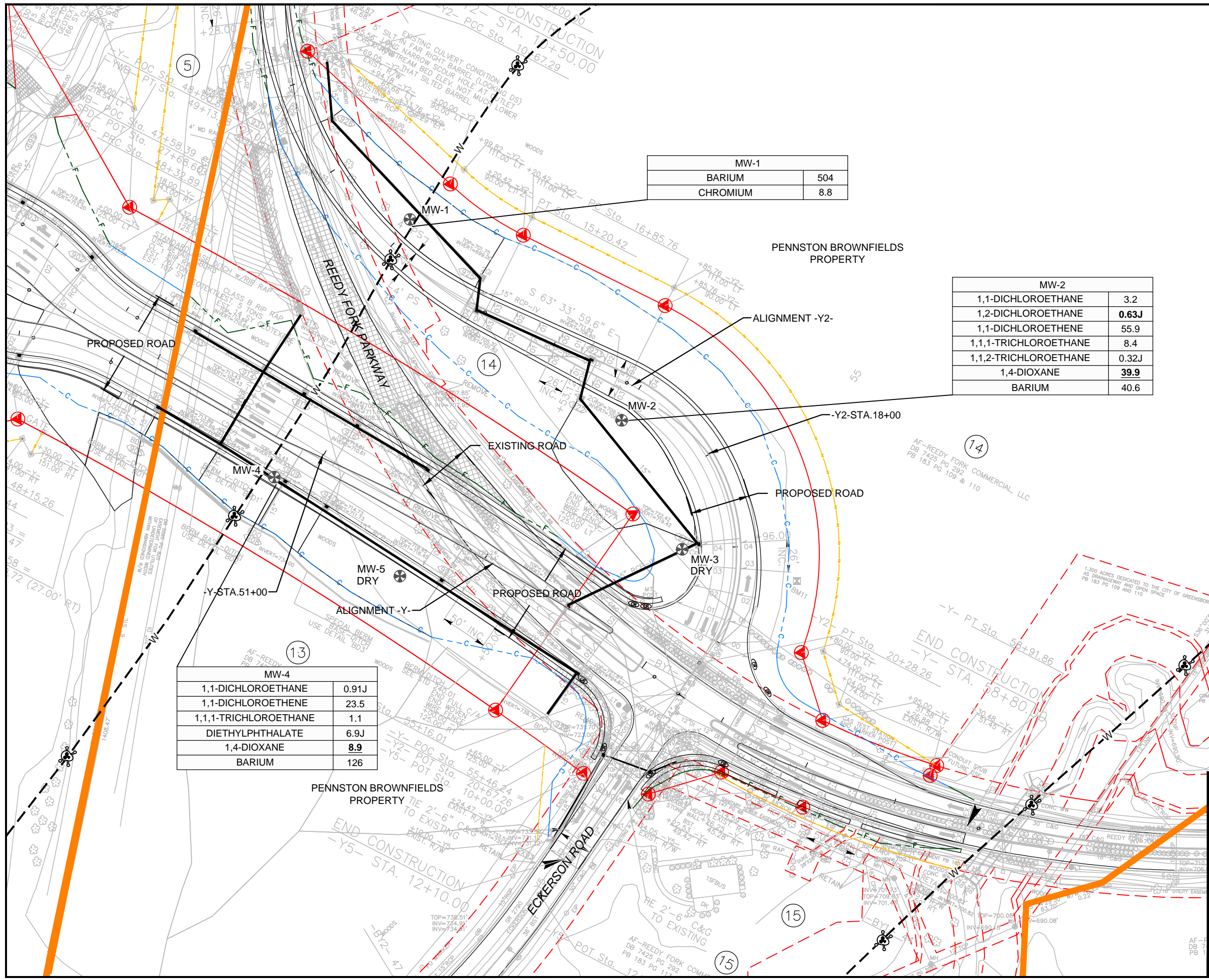


- LEGEND**
- BROWNFIELDS PROPERTY BOUNDARY
  - MONITORING WELL AND SOIL SAMPLE LOCATION
  - - - EXISTING RIGHT-OF-WAY
  - PROPOSED RIGHT-OF-WAY
  - - - PROPOSED CONSTRUCTION EASEMENT
  - U—U— PROPOSED UTILITY EASEMENT
  - - - C - - - PROPOSED CUT LINE
  - - - F - - - PROPOSED FILL LINE
  - 14 NC DOT PARCEL ID
  - PROPOSED DRAINAGE PIPE
  - PROPOSED CATCH BASIN
  - S-S- KNOWN SOIL CONTAMINATION
  - [0.014] 1,4-DIOXANE CONCENTRATION (mg/kg)
  - {0.870 J} HEXAVALENT CHROMIUM CONCENTRATION (mg/kg)
  - MW-2/SB-2 (15-17) SAMPLE ID/DEPTH



<b>SOIL ANALYTICAL RESULTS</b>	
PROJECT: BROWNFIELDS PROJECT #15010-11-41 ECKERSON ROAD & REEDY FORK PARKWAY GREENSBORO, NORTH CAROLINA	
<span style="font-size: small; vertical-align: middle;">2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology</span>	
DATE: 2-13-2020	REVISION NO. 0
JOB NO. ROW-603	FIGURE NO. 3

I:\HARTHICKMAN\LOCAL\Shares\MasterFiles\AAA-Master\Projects\NC DOT Right-of-Way - ROW-603\ROW-603 Guilford County Phase II Investigations\Brownfields Assessment\Figures\Parcels-row603-R1.dwg, FIG 4 GW ANALY, 2/21/2020 3:30:04 PM, jdemmer



MW-1	
BARIIUM	504
CHROMIUM	8.8

MW-2	
1,1-DICHLOROETHANE	3.2
1,2-DICHLOROETHANE	<b>0.63J</b>
1,1-DICHLOROETHENE	55.9
1,1,1-TRICHLOROETHANE	8.4
1,1,2-TRICHLOROETHANE	0.32J
1,4-DIOXANE	<u>39.9</u>
BARIIUM	40.6

MW-4	
1,1-DICHLOROETHANE	0.91J
1,1-DICHLOROETHENE	23.5
1,1,1-TRICHLOROETHANE	1.1
DIETHYLPHTHALATE	6.9J
1,4-DIOXANE	<b>8.9</b>
BARIIUM	126

**LEGEND**

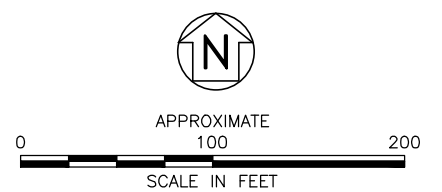
- BROWNFIELDS PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- - - EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- - - PROPOSED CONSTRUCTION EASEMENT
- w/w— PROPOSED UTILITY EASEMENT
- - - C - - - PROPOSED CUT LINE
- - - F - - - PROPOSED FILL LINE
- 14 NC DOT PARCEL ID
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN
- W--W- KNOWN GROUNDWATER CONTAMINATION

SAMPLE ID →

MW-1	
CONSTITUENT	
BARIIUM	504
CHROMIUM	8.8

CONCENTRATION (ug/L)

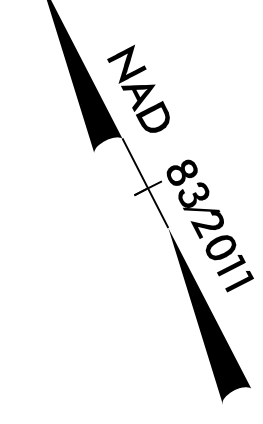
- NOTES:**
- BOLD** EXCEEDS 2L STANDARD.
  - UNDERLINE EXCEEDS 2B STANDARD OR, IF NO 2B STANDARD EXISTS, LOWER OF EPA NATIONAL RECOMMENDED WATER QUALITY CRITERIA OR NC IN-STREAM TARGET VALUES.



<b>GROUNDWATER ANALYTICAL RESULTS</b>	
PROJECT BROWNFIELDS PROJECT #15010-11-41 ECKERSON ROAD & REEDY FORK PARKWAY GREENSBORO, NORTH CAROLINA	
	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 2-13-2020	REVISION NO. 0
JOB NO. ROW-603	FIGURE NO. 4

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



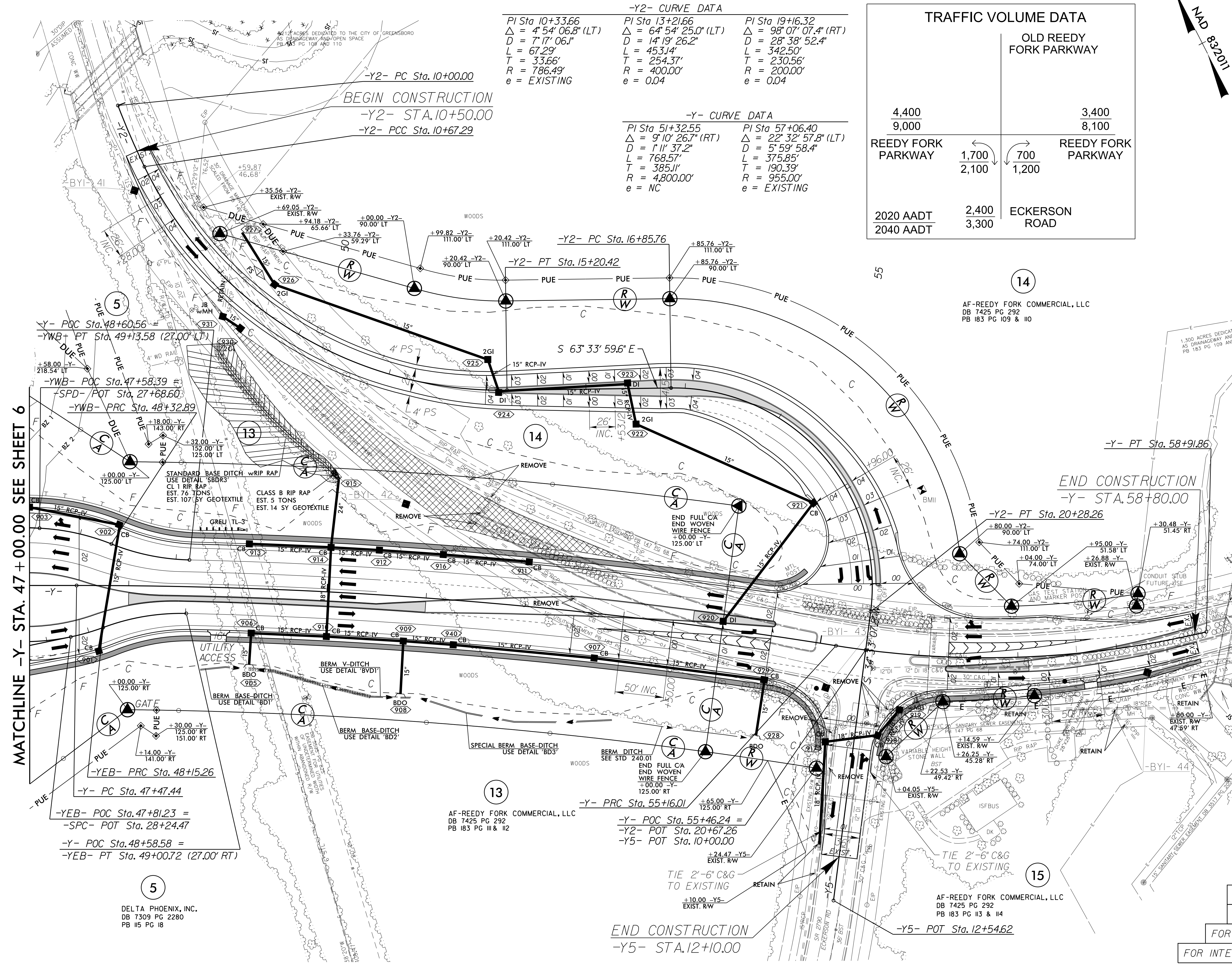


TRAFFIC VOLUME DATA			
		OLD REEDY FORK PARKWAY	
4,400			3,400
9,000			8,100
REEDY FORK PARKWAY	1,700	700	REEDY FORK PARKWAY
	2,100	1,200	
2020 AADT	2,400	ECKERSON ROAD	
2040 AADT	3,300		

-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

06-MAR-2019 17:37  
 R:\Roadway\Proj\4707\_Rdy\_psh\_09.dgn  
 1784r1d

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

**Appendix B**  
**Environmental Documents**

BK: R 7650  
PG: 803-837  
RECORDED:  
11-10-2014  
04:37:45 PM  
BY: HBAO-WEI AHERON  
DEPUTY-GS



2014057207  
GUILFORD COUNTY, NC  
JEFF L. THIGPEN  
REGISTER OF DEEDS

NC FEE \$108.00

Property Owner: AF-Reedy Fork Commercial, LLC

*pu Brooks*

Recorded in Book 88, Page 7

Associated plat recorded in Plat Book     , Page     

**NOTICE OF BROWNFIELDS PROPERTY**

This documentary component of a Notice of Brownfields Property ("Notice"), as well as the plat component, have been filed this 10<sup>th</sup> day of November, 2014 by Reedy Fork Investments, LLC (hereinafter "Prospective Developer").

*A*  
*35*

The Notice concerns contaminated property.

A copy of this Notice certified by the North Carolina Department of Environment and Natural Resources (hereinafter "DENR") is required to be filed in the Register of Deeds' Office in the county or counties in which the land is located, pursuant to North Carolina General Statutes (hereinafter "NCGS"), Section (hereinafter "§") 130A-310.35(b).

This Notice is required by NCGS § 130A-310.35(a), in order to reduce or eliminate the danger to public health or the environment posed by environmental contamination at a property (hereinafter the "Brownfields Property") being addressed under the Brownfields Property Reuse Act of 1997, NCGS Chapter 130A, Article 9, Part 5 (hereinafter the "Act").

Pursuant to NCGS § 130A-310.35(b), the Prospective Developer must file a certified copy of this Notice within 15 days of Prospective Developer's receipt of DENR's approval of the Notice or Prospective Developer's entry into the Brownfields Agreement required by the Act, whichever is later. Pursuant to NCGS § 130A-310.35(c), the copy of the Notice certified by DENR must be recorded in the grantor index under the names of the owners of the land and, if Prospective Developer is not the owner, also under Prospective Developer's name.

The Brownfields Property consists of approximately 78 acres and is located at 3600 Reedy Fork Parkway, Greensboro, Guilford County, North Carolina. The Brownfields Property has been wooded and undeveloped since at least 1937. No release of regulated substances is known or suspected to have occurred at the Brownfields Property. Groundwater at the Brownfields Property is known to be contaminated with chlorinated solvents that have migrated in groundwater to the Brownfields Property from the adjoining Wysong & Miles manufacturing site. Prospective

Developer intends to develop the Brownfields Property for commercial retail and office use or other commercial use approved in advance and in writing by DENR.

The Brownfields Agreement between Prospective Developer and DENR is attached hereto as **Exhibit A**. It sets forth the use that may be made of the Brownfields Property and the measures to be taken to protect public health and the environment, and is required by NCGS § 130A-310.32. The Brownfields Agreement's Exhibit 2 consists of one or more data tables reflecting the concentrations of and other information regarding the Property's regulated substances and contaminants.

**Exhibit B** to this Notice is a reduction, to 8 1/2" x 11", of the plat component of this Notice. The plat shows areas designated by DENR, has been prepared and certified by a professional land surveyor, and complies with NCGS § 130A-310.35(a)'s requirement that the Notice identify:

- (1) The location and dimensions of the areas of potential environmental concern with respect to permanently surveyed benchmarks.
- (2) The type, location and quantity of regulated substances and contaminants known to exist on the Brownfields Property.

Attached hereto as **Exhibit C** is a legal description of the Brownfields Property that would be sufficient as a description of the property in an instrument of conveyance.

#### **LAND USE RESTRICTIONS**

NCGS § 130A-310.35(a) also requires that the Notice identify any restrictions on the current and future use of the Brownfields Property that are necessary or useful to maintain the level of protection appropriate for the designated current or future use of the Brownfields Property and that are designated in the Brownfields Agreement. The restrictions shall remain in force in perpetuity unless canceled by the Secretary of DENR (or its successor in function), or his/her designee, after the hazards have been eliminated, pursuant to NCGS § 130A-310.35(e). All references to DENR shall be understood to include any successor in function. The restrictions are hereby imposed on the Brownfields Property, and are as follows:

1. No use may be made of the Brownfields Property other than for commercial retail and office use or other commercial uses approved in advance and in writing by DENR. For purposes of this restriction, the following definitions apply:
  - a. Retail shall mean the sale of goods directly to the consumer; and
  - b. Office shall mean places where business or professional services (including medical services) are rendered.
2. Any future demolition of buildings constructed on the Brownfields Property shall be conducted in strict accordance with applicable legal requirements, including without limitation those related to lead and asbestos abatement that are administered by the Health Hazards Control Unit within the Division of Public Health of the North Carolina Department of Health and

Human Services or its successors in function.

3. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools, or construction or excavation activities that encounter or expose groundwater) may occur on the Brownfields Property without DENR's prior written approval on such conditions as DENR determines are warranted, which may include prior sampling and analysis of groundwater to DENR's written satisfaction. If sampling occurs and discloses to DENR contamination that DENR determines may place at risk the Brownfields Property's suitability for the use specified in land use restriction 1. above or public health or the environment, the proposed activities may not occur without the prior written approval of DENR on such conditions as DENR imposes, including at a minimum compliance with plans and procedures, approved pursuant to applicable law, to protect public health and the environment during the proposed activities.

4. No building may be constructed on the Brownfields Property unless and until DENR determines in writing that:

a. the building would be sufficiently distant from the Brownfields Property's groundwater contamination and/or soil contamination that the building's users, public health and the environment will be protected from risk from vapor intrusion related to said contamination; or

b. a plan for a vapor intrusion mitigation system, approved in writing by DENR in advance and including a proposed performance assessment for demonstration of the system's protection of the building's users, public health and the environment from risk from vapor intrusion, is implemented to the satisfaction of a North Carolina-licensed professional engineer as reflected by an implementation report, bearing the seal of said engineer, that includes photographs and a description of the installation and performance assessment of the mitigation system.

5. Soil may not be disturbed at the Brownfields Property at a depth greater than fifteen (15) feet below the surface of the ground without DENR's prior written approval and on such conditions 1) as DENR determines are warranted to ensure the Brownfields Property is suitable for the uses specified above in land use restriction 1.

6. The Brownfields Property may not be used as a playground, or for child care centers or schools.

7. No mining may be conducted on or under the Brownfields Property, including, without limitation, extraction of coal, oil, gas or any other minerals or non-mineral substances.

8. No basements may be constructed on the Brownfields Property unless they are, as determined in writing by DENR, vented in conformance with applicable building codes.

9. None of the contaminants known to be present in the environmental media at the Brownfields Property, including those referenced above in paragraph 7 of, or listed in Exhibit 2 to, Exhibit A hereto, may be used or stored at the Brownfields Property without the prior written approval of DENR, except in *de minimis* amounts for cleaning and other routine housekeeping

activities.

10. The owner of any portion of the Brownfields Property where any existing or later DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR.

11. Neither DENR, nor any party conducting environmental assessment or remediation at the Brownfields Property at the direction of, or pursuant to a permit, order or agreement issued or entered into by DENR, may be denied access to the Brownfields Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Brownfields Property.

12. During January of each year after the year in which this Notice is recorded, the owner of any part of the Brownfields Property as of January 1<sup>st</sup> of that year shall submit a notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Guilford County, certifying that, as of said January 1<sup>st</sup>, this Notice containing these land use restrictions remains recorded at the Guilford County Register of Deeds office and that the land use restrictions are being complied with, and stating:

a. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Brownfields Property during the previous calendar year;

b. the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Brownfields Property during the previous calendar year; and

c. whether any vapor barrier and/or mitigation systems installed pursuant to land use restriction 4.b. above are performing as designed, and whether the uses of the ground floors of any buildings containing such vapor barrier and/or mitigation systems have changed, and, if so, how.

For purposes of the land use restrictions set forth above, the DENR point of contact shall be the DENR official referenced in paragraph 33.a. of Exhibit A hereto, at the address stated therein.

#### ENFORCEMENT

The above land use restrictions shall be enforceable without regard to lack of privity of estate or contract, lack of benefit to particular land, or lack of any property interest in particular land. The land use restrictions shall be enforced by any owner of the Brownfields Property. The land use restrictions may also be enforced by DENR through the remedies provided in NCGS 130A, Article 1, Part 2 or by means of a civil action; by any unit of local government having jurisdiction over any part of the Brownfields Property; and by any person eligible for liability protection under the Brownfields Property Reuse Act who will lose liability protection if the restrictions are violated. Any attempt to cancel any or all of this Notice without the approval of the Secretary of DENR (or its successor in function), or his/her delegate, shall be subject to enforcement by DENR to the full extent of the law. Failure by any party required or authorized to enforce any of the above restrictions shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

**FUTURE SALES, LEASES, CONVEYANCES AND TRANSFERS**

When any portion of the Brownfields Property is sold, leased, conveyed or transferred, pursuant to NCGS § 130A-310.35(d) the deed or other instrument of transfer shall contain in the description section, in no smaller type than that used in the body of the deed or instrument, a statement that the Brownfields Property has been classified and, if appropriate, cleaned up as a brownfields property under the Brownfields Property Reuse Act.

IN WITNESS WHEREOF, Prospective Developer has caused this instrument to be duly executed this 23 day of September, 2014.

Reedy Fork Investments, LLC

By:

[Signature]  
Coolidge A. Porterfield  
Manager

NORTH CAROLINA  
GUILFORD COUNTY

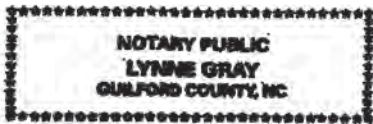
I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated: Coolidge A. Porterfield.

Date: 9-23-2014

[Signature]  
Official Signature of Notary

Lynne Gray  
Notary's printed or typed name, Notary Public

My commission expires: 2-12-2019



(Official Seal)

\*\*\*\*\*

**ACKNOWLEDGMENT OF PROPERTY OWNER**

As the current owner, or representative of said owner, of at least part of the Brownfields Property, I hereby acknowledge recordation of this Notice of Brownfields Property and the Land Use Restrictions contained herein.

By: AF-Reedy Fork Commercial, LLC  
Craig A Briner 9.30.14  
Name of signatory typed or printed: Date  
Craig Briner  
Manager

NORTH CAROLINA  
WAKE COUNTY

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated: Craig Briner

Date: 9/30/14

James A. Oliver  
Official Signature of Notary



JAMES A OLIVER  
Notary's printed or typed name, Notary Public  
My commission expires: \_\_\_\_\_

(Official Seal)

\*\*\*\*\*

**APPROVAL AND CERTIFICATION OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

The foregoing Notice of Brownfields Property is hereby approved and certified.

North Carolina Department of Environment and Natural Resources  
By: Michael E. Scott 9/12/14  
Michael E. Scott Date  
Deputy Director, Division of Waste Management



\*\*\*\*\*

**CERTIFICATION OF REGISTER OF DEEDS**

The foregoing documentary component of the Notice of Brownfields Property, and the associated plat, are certified to be duly recorded at the date and time, and in the Books and Pages, shown on the first page hereof.

Register of Deeds for Guilford County

By:

Name typed or printed: \_\_\_\_\_ Date \_\_\_\_\_  
Deputy/Assistant Register of Deeds

**EXHIBIT A**

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF: Reedy Fork Investments, LLC

UNDER THE AUTHORITY OF THE	)	BROWNFIELDS AGREEMENT re:
BROWNFIELDS PROPERTY REUSE ACT	)	Pennston Property
OF 1997, N.C.G.S. § 130A-310.30, <u>et seq.</u>	)	3600 Reedy Fork Parkway
Brownfields Project # 15010-11-41	)	Greensboro, Guilford County

**I. INTRODUCTION**

This Brownfields Agreement ("Agreement") is entered into by the North Carolina Department of Environment and Natural Resources ("DENR") and Reedy Fork Investments, LLC (collectively the "Parties") pursuant to the Brownfields Property Reuse Act of 1997, N.C.G.S. § 130A-310.30, et seq. (the "Act").

Reedy Fork Investments, LLC is a manager-managed North Carolina limited liability company; its registered office address is 600 Green Valley Road, Suite 200, Greensboro, NC 27408. This Agreement concerns approximately 78 acres located at 3600 Reedy Fork Parkway, Greensboro, Guilford County, North Carolina that Reedy Fork Investments, LLC has acquired and will acquire. Groundwater contamination is present on the property due, on information and belief, to past activities conducted in the vicinity of the site. Reedy Fork Investments, LLC intends to redevelop the property for commercial retail and office use or other commercial use approved in advance in writing by DENR. A map showing the location of the property which is the subject of this Agreement is attached hereto as Exhibit 1.

The Parties agree to undertake all actions required by the terms and conditions of this Agreement. The purpose of this Agreement is to settle and resolve, subject to reservations and limitations contained in Section VIII (Certification), Section IX (DENR's Covenant Not to Sue

and Reservation of Rights) and Section X (Prospective Developer's Covenant Not to Sue), the potential liability of Reedy Fork Investments, LLC for contaminants at the property which is the subject of this Agreement.

The Parties agree that Reedy Fork Investments, LLC's entry into this Agreement, and the actions undertaken by Reedy Fork Investments, LLC in accordance with the Agreement, do not constitute an admission of any liability by Reedy Fork Investments, LLC.

The resolution of this potential liability, in exchange for the benefit [name of Prospective Developer] shall provide to DENR, is in the public interest.

## II. DEFINITIONS

Unless otherwise expressly provided herein, terms used in this Agreement which are defined in the Act or elsewhere in N.C.G.S. 130A, Article 9 shall have the meaning assigned to them in those statutory provisions, including any amendments thereto.

1. "Property" shall mean the Brownfields Property which is the subject of this Agreement, and which is depicted in Exhibit 1 to the Agreement.

2. "Prospective Developer" shall mean Reedy Fork Investments, LLC.

## III. STATEMENT OF FACTS

3. The Property is located at 3600 Reedy Fork Parkway, Greensboro, Guilford County, North Carolina and comprises approximately 78 acres. Prospective Developer has committed itself to redevelopment for no uses other than for commercial retail and office use or other commercial use approved in advance in writing by DENR.

4. The Property is bordered to the north by undeveloped woodland or farmland, to the south and west by undeveloped woodland, and to the east by single-family residential

development.

5. Prospective Developer obtained or commissioned the following reports, referred to hereinafter as the "Environmental Reports," regarding the Property:

Title	Prepared by	Date of Report
Hydrogeologic and Contamination Assessment – Phase II, Wysong & Miles Company, Greensboro, North Carolina	Delta	4/6/1989
Phase I Environmental Site Assessment Update, Reedy Fork Ranch, Highway 29, Brown Summit, North Carolina	ECS, Ltd.	5/3/1999
Report of Environmental Assessment [Phase II Environmental Assessment], Reedy Fork Ranch, Brown Summit, North Carolina	ECS, Ltd.	1/13/2000
Report of Groundwater Assessment Services, Reedy Fork Ranch, Greensboro, North Carolina	BCS. Ltd.	3/8/2005
Report of Groundwater Assessment Services – Bedrock Aquifer, Reedy Fork Ranch, Greensboro, North Carolina	ECS, Ltd.	4/26/2005
Phase I Environmental Site Assessment, Reedy Fork Ranch, Parcel A-5, Greensboro, North Carolina	ECS, Ltd.	3/3/2006
Phase I Environmental Site Assessment, Reedy Fork Ranch, Parcel A-3, Greensboro, North Carolina	ECS, Ltd.	5/25/2006
Quarterly Ground Water Monitoring Report – December 2007, Wysong & Miles Facility, Greensboro, North Carolina	Hart & Hickman	2/15/2008
Quarterly Ground Water Monitoring Report – October 2008, Wysong & Miles Facility, Greensboro, North Carolina	Hart & Hickman	1/21/2009
Human Health Risk Assessment, Development of Risk-Based Screening Levels, Wysong & Miles Facility, Greensboro, North Carolina	Safrisk	March 2009
Human Health Risk Assessment Report, Wysong & miles Facility, Greensboro, North Carolina	Hart & Hickman	5/8/2009
Site Summary Report, Wysong & Miles	Hart & Hickman	7/6/2009

Facility & Off-site Areas, Greensboro, North Carolina		
Soil Vapor Investigation Report, Wysong & Miles Facility, Greensboro, North Carolina	Hart & Hickman	10/30/2009
Off-site (Pennston Property) Ground-water Assessment, Wysong & Miles Company, Greensboro, North Carolina	Hart & Hickman	9/15/2010

6. For purposes of this Agreement, DENR relies on the following representations by Prospective Developer as to use and ownership of the Property:

a. Based on available aerial photographs, the Property has been wooded and undeveloped since at least 1937, the date of the earliest known aerial photograph. Prospective Developer purchased approximately 73.5 acres of the Property on April 6, 2000 and purchased the remaining 4.585 acres of the Property on September 26, 2011.

7. Pertinent environmental information regarding the Property includes the following:

a. No release of regulated substances is known or suspected to have occurred at the Property, and no manufacturing or other activities that may or would be likely to have resulted in such a release are known or suspected to have occurred at the Property.

b. The Property is located approximately 700 feet east-northeast of a Wysong & Miles (W&M) facility. W&M, a manufacturer of large scale precision metal working machinery, has operated the facility since 1965. Releases of the chlorinated solvent 1,1,1-Trichloroethane (1,1,1-TCA), which was used for degreasing metal surfaces prior to painting and for general parts degreasing, was discovered at the facility in October 1987. The only known contamination at the Property is in groundwater that has migrated from the W&M facility to the Property. Thus, the W&M facility is believed to be the source of the groundwater contamination

present at the Property. Groundwater occurs at the Property at depths ranging from approximately 20 to 35 feet below ground surface.

c. Groundwater contaminants at the Property include 1,1,1-TCA, 1,1-Dichloroethene (1,1-DCE), 1,1-Dichloroethane (1,1-DCA), 1,2-Dichloroethane and 1,4-Dioxane (a related solvent stabilizer). All of these compounds are present at the Property in concentrations that exceed North Carolina unrestricted use groundwater standards contained in Title 15A of the North Carolina Administrative Code, Subchapter 2L, Rule .0202(2L) ("2L Standards"). In six of the nine groundwater monitoring locations at the Property, the compound 1,1-DCE is present in concentrations that exceed the Groundwater Screening Level for vapor intrusion (VI) contained in DENR's Division of Waste Management Non-Residential Vapor Intrusion Screening Levels, (January 2014 version).

d. Three soil gas samples were collected from the vadose zone in locations immediately adjacent to groundwater sampling locations where the concentration of 1,1-DCE detected in groundwater exceeded the Non-Residential VI screening level for groundwater. The compounds 1,1-DCE, 1,1-DCA and 1,1,1-TCA were detected in soil gas but not at a concentration that exceeds the Sub Slab and Exterior Soil Gas Screening Level contained in DENR's Division of Waste Management Non-Residential Vapor Intrusion Screening Levels, (January 2014 version). Soil gas sampling has not been conducted adjacent to the six other groundwater sampling locations on the Property where concentrations of 1,1-DCE exceeded the above-referenced I/C use screening level for VI.

e. Two data tables reflecting the concentrations of and other information regarding the Property's contaminants appear in Exhibit 2 to this Agreement.

8. For purposes of this Agreement DENR relies on Prospective Developer's representations that Prospective Developer's involvement with the Property has been limited to obtaining or commissioning the Environmental Reports, preparing and submitting to DENR a Brownfields Property Application dated March 9, 2011, and the following:

a. On April 6, 2000, Prospective Developer purchased approximately 73.5 acres of the Property. Prospective Developer purchased the remaining 4.585 acres of the Property on September 26, 2011.

b. In preparation for the Property's redevelopment, Prospective Developer has completed the following infrastructure improvements to the Property:

i. effected the relocation of a portion of Eckerson Road and the removal and abandonment of the old section of said road;

ii. constructed Reedy Fork Parkway and installed a double box culvert for a tributary to Reedy Fork Creek crossed by the new road;

iii. installed storm drains and drain pipes during the relocation and construction of the above two roads;

iv. clearing and grading of an area, and the installation of a 1,200 square foot modular structure and related paved parking for use as the Reedy Fork Ranch sales office and visitor center;

v. installation of a "Reedy Fork Ranch" monument sign with stone and concrete footings;

vi. installation of necessary utility services for the proposed redevelopment, including City water and sewer services, electrical and natural gas services, and

telephone and cable availability;

vii. constructed a concrete and wooden walking trail on a portion of the Property; and

viii. established a conservation easement (4.9 ac) with, and dedicated road right-of-way (4.8 ac) and flood plain & open space (21.3 ac) to, the City of Greensboro.

9. Prospective Developer has provided DENR with information, or sworn certifications regarding that information on which DENR relies for purposes of this Agreement, sufficient to demonstrate that:

a. Prospective Developer and any parent, subsidiary, or other affiliate has substantially complied with federal and state laws, regulations and rules for protection of the environment, and with the other agreements and requirements cited at N.C.G.S. § 130A-310.32(a)(1);

b. as a result of the implementation of this Agreement, the Property will be suitable for the uses specified in the Agreement while fully protecting public health and the environment;

c. Prospective Developer's reuse of the Property will produce a public benefit commensurate with the liability protection provided Prospective Developer hereunder;

d. Prospective Developer has or can obtain the financial, managerial and technical means to fully implement this Agreement and assure the safe use of the Property; and

e. Prospective Developer has complied with all applicable procedural requirements.

10. Prospective Developer has paid to DENR the \$2,000 fee to seek a brownfields



agreement required by N.C.G.S. § 130A-310.39(a)(1), and shall make a payment to DENR of \$3,500 at the time Prospective Developer and DENR enter into this Agreement, defined for this purpose as occurring no later than the last day of the public comment period related to this Agreement. The Parties agree that such fees will suffice as the \$2,000 fee to seek a brownfields agreement required by N.C.G.S. § 130A-310.39(a)(1), and, within the meaning of N.C.G.S. § 130A-310.39(a)(2), the full cost to DENR and the North Carolina Department of Justice of all activities related to this Agreement, unless a change is sought to a Brownfield document after it is in effect, in which case there shall be an additional fee of at least \$1,000.

#### IV. BENEFIT TO COMMUNITY

11. The redevelopment of the Property proposed herein would provide the following public benefits:

- a. encourage completion of a portion of Reedy Fork Ranch, the largest Master Planned Community in the Triad area;
- b. encourage continued growth along U.S. Highway 29, a major north-south transportation route through Greensboro;
- c. provide new retail, shopping and office space that will be integral to the success of the Reedy Fork Ranch community;
- d. assist in the continued development of Reedy Fork Ranch as a "walkable community," a primary focus and a primary feature of the overall Reedy Fork Ranch project;
- e. creation of approximately 100 construction-related and approximately 50 permanent jobs upon completion; and
- f. an increase in tax revenue for affected jurisdictions;

V. WORK TO BE PERFORMED

12. Based on the information in the Environmental Reports, and subject to imposition of and compliance with the land use restrictions set forth below, and subject to Section IX of this Agreement (DENR's Covenant Not to Sue and Reservation of Rights), DENR is not requiring Prospective Developer to perform any active remediation at the Property other than remediation that may be required pursuant to a DENR-approved Environmental Management Plan (EMP) required by this Section.

13. By way of the Notice of Brownfields Property referenced below in paragraph 18, Prospective Developer shall impose the following land use restrictions under the Act, running with the land, to make the Property suitable for the uses specified in this Agreement while fully protecting public health and the environment. All references to DENR shall be understood to include any successor in function.

a. No use may be made of the Property other than for commercial retail and office use or other commercial use approved in advance in writing by DENR. For purposes of this restriction, the following definitions apply:

- i. Retail shall mean the sale of goods directly to the consumer, and
- ii. Office shall mean places where business or professional services

(including medical services) are rendered.

b. Any future demolition of buildings constructed on the Property shall be conducted in strict accordance with applicable legal requirements, including without limitation those related to lead and asbestos abatement that are administered by the Health Hazards Control Unit within the Division of Public Health of the North Carolina Department of Health and

Human Services or its successors in function.

c. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools, or construction or excavation activities that encounter or expose groundwater) may occur on the Property without DENR's prior written approval on such conditions as DENR determines are warranted, which may include prior sampling and analysis of groundwater to DENR's written satisfaction. If sampling occurs and discloses to DENR contamination that DENR determines may place at risk the Property's suitability for the use specified in subparagraph 13.a. above or public health or the environment, the proposed activities may not occur without the prior written approval of DENR on such conditions as DENR imposes, including at a minimum compliance with plans and procedures, approved pursuant to applicable law, to protect public health and the environment during the proposed activities.

d. No building may be constructed on the Property unless and until DENR determines in writing that:

i. the building would be sufficiently distant from the Property's groundwater contamination and/or soil contamination that the building's users, public health and the environment will be protected from risk from vapor intrusion related to said contamination; or

ii. a plan for a vapor intrusion mitigation system, approved in writing by DENR in advance and including a proposed performance assessment for demonstration of the system's protection of the building's users, public health and the environment from risk from vapor intrusion, is implemented to the satisfaction of a North Carolina-licensed professional

engineer as reflected by an implementation report, bearing the seal of said engineer, that includes photographs and a description of the installation and performance assessment of the mitigation system.

e. Soil may not be disturbed at the Property at a depth greater than fifteen (15) feet below the surface of the ground without DENR's prior written approval and on such conditions 1) as DENR determines are warranted to ensure the Property is suitable for the uses specified above in paragraph 13.a.

f. The Property may not be used as a playground, or for child care centers or schools.

g. No mining may be conducted on or under the Property, including, without limitation, extraction of coal, oil, gas or any other minerals or non-mineral substances.

h. No basements may be constructed on the Property unless they are, as determined in writing by DENR, vented in conformance with applicable building codes.

i. None of the contaminants known to be present in the environmental media at the Property, including those referenced above in paragraph 7 of, or listed in Exhibit 2 to, this Agreement, may be used or stored at the Property without the prior written approval of DENR, except in *de minimis* amounts for cleaning and other routine housekeeping activities.

j. The owner of any portion of the Property where any existing or later DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR.

k. Neither DENR, nor any party conducting environmental assessment or remediation at the Property at the direction of, or pursuant to a permit, order or agreement issued

or entered into by DENR, may be denied access to the Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Property.

1. During January of each year after the year in which the Notice referenced below in paragraph 18 is recorded, the owner of any part of the Property as of January 1<sup>st</sup> of that year shall submit a notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Guilford County, certifying that, as of said January 1<sup>st</sup>, the Notice of Brownfields Property containing these land use restrictions remains recorded at the Guilford County Register of Deeds office and that the land use restrictions are being complied with, and stating:

i. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Property during the previous calendar year;

ii. the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Property during the previous calendar year; and

iii. whether any vapor barrier and/or mitigation systems installed pursuant to subparagraph 13.d.ii. above are performing as designed, and whether the uses of the ground floors of any buildings containing such vapor barrier and/or mitigation systems have changed, and, if so, how.

14. The desired result of the above-referenced land use restrictions is to make the Property suitable for the uses specified in the Agreement while fully protecting public health and

the environment.

15. The guidelines, including parameters, principles and policies within which the desired results are to be accomplished are, as to field procedures and laboratory testing, the Guidelines of the Inactive Hazardous Sites Branch of DENR's Superfund Section, as embodied in their most current version.

16. The consequence of achieving the desired results will be that the property will be suitable for the uses specified in the Agreement while fully protecting public health and the environment. The consequence of not achieving the desired results will be that modifications to land use restrictions and/or remediation in some form may be necessary to fully protect public health and/or the environment.

#### VI. ACCESS/NOTICE TO SUCCESSORS IN INTEREST

17. In addition to providing access to the Property pursuant to subparagraph 13.k. above, Prospective Developer shall provide DENR, its authorized officers, employees, representatives, and all other persons performing response actions under DENR oversight, access at all reasonable times to other property controlled by Prospective Developer in connection with the performance or oversight of any response actions at the Property under applicable law. While Prospective Developer owns the Property, DENR shall provide reasonable notice to Prospective Developer of the timing of any response actions to be undertaken by or under the oversight of DENR at the Property. Except as may be set forth in the Agreement, DENR retains all of its authorities and rights, including enforcement authorities related thereto, under the Act and any other applicable statute or regulation, including any amendments thereto.

18. DENR has approved, pursuant to N.C.G.S. § 130A-310.35, a Notice of Brownfields

Property for the Property containing, inter alia, the land use restrictions set forth in Section V (Work to Be Performed) of this Agreement and a survey plat of the Property. Pursuant to N.C.G.S. § 130A-310.35(b), within 15 days of the effective date of this Agreement Prospective Developer shall file the Notice of Brownfields Property in the Guilford County, North Carolina, Register of Deeds' office. Within three (3) days thereafter, Prospective Developer shall furnish DENR a copy of the documentary component of the Notice containing a certification by the Register of Deeds as to the Book and Page numbers where both the documentary and plat components of the Notice are recorded, and a copy of the plat with notations indicating its recordation.

19. This Agreement shall be attached as Exhibit A to the Notice of Brownfields Property. Subsequent to recordation of said Notice, any deed or other instrument conveying an interest in the Property shall contain the following notice: "The property which is the subject of this instrument is subject to the Brownfields Agreement attached as Exhibit A to the Notice of Brownfields Property recorded in the Guilford County land records, Book \_\_\_\_, Page \_\_\_\_." A copy of any such instrument shall be sent to the persons listed in Section XV (Notices and Submissions), though financial figures related to the conveyance may be redacted.

20. The Prospective Developer shall ensure that a copy of this Agreement is provided to any current lessee or sublessee on the Property within seven days of the effective date of this Agreement and shall ensure that, to the extent it can legally do so, any subsequent leases, subleases, assignments or transfers of the Property or an interest in the Property are consistent with this Section (Access/Notice To Successors In Interest), Section V (Work to be Performed) and Section XI (Parties Bound) of this Agreement.

VII. DUE CARE/COOPERATION

21. The Prospective Developer shall exercise due care at the Property with respect to the manner in which regulated substances are handled at the Property and shall comply with all applicable local, State, and federal laws and regulations. The Prospective Developer agrees to cooperate fully with any remediation of the Property by DENR and further agrees not to interfere with any such remediation. In the event the Prospective Developer becomes aware of any action or occurrence which causes or threatens a release of contaminants at or from the Property, the Prospective Developer shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release, and shall, in addition to complying with any applicable notification requirements under N.C.G.S. 130A-310.1 and 143-215.85, and Section 103 of CERCLA, 42 U.S.C. § 9603, or any other law, immediately notify DENR of such release or threatened release.

VIII. CERTIFICATION

22. By entering into this Agreement, the Prospective Developer certifies that, without DENR approval, it will make no use of the Property other than that committed to in the Brownfields Property Application dated March 9, 2011 by which it applied for this Agreement. That use is for commercial retail and office use or other commercial use approved in advance in writing by DENR. Prospective Developer also certifies that to the best of its knowledge and belief it has fully and accurately disclosed to DENR all information known to Prospective Developer and all information in the possession or control of its officers, directors, employees, contractors and agents which relates in any way to any past use of regulated substances or known contaminants at the Property and to its qualification for this Agreement, including the



requirement that it not have caused or contributed to the contamination at the Property.

IX. DENR'S COVENANT NOT TO SUE AND RESERVATION OF RIGHTS

23. Unless any of the following apply, Prospective Developer shall not be liable to DENR, and DENR covenants not to sue Prospective Developer, for remediation of the Property except as specified in this Agreement:

a. The Prospective Developer fails to comply with this Agreement.

b. The activities conducted on the Property by or under the control or direction of the Prospective Developer increase the risk of harm to public health or the environment, in which case Prospective Developer shall be liable for remediation of the areas of the Property, remediation of which is required by this Agreement, to the extent necessary to eliminate such risk of harm to public health or the environment.

c. A land use restriction set out in the Notice of Brownfields Property required under N.C.G.S. 130A-310.35 is violated while the Prospective Developer owns the Property, in which case the Prospective Developer shall be responsible for remediation of the Property to unrestricted use standards.

d. The Prospective Developer knowingly or recklessly provided false information that formed a basis for this Agreement or knowingly or recklessly offers false information to demonstrate compliance with this Agreement or fails to disclose relevant information about contamination at the Property.

e. New information indicates the existence of previously unreported contaminants or an area of previously unreported contamination on or associated with the Property that has not been remediated to unrestricted use standards, unless this Agreement is

amended to include any previously unreported contaminants and any additional areas of contamination. If this Agreement sets maximum concentrations for contaminants, and new information indicates the existence of previously unreported areas of these contaminants, further remediation shall be required only if the areas of previously unreported contaminants raise the risk of the contamination to public health or the environment to a level less protective of public health and the environment than that required by this Agreement.

f. The level of risk to public health or the environment from contaminants is unacceptable at or in the vicinity of the Property due to changes in exposure conditions, including (i) a change in land use that increases the probability of exposure to contaminants at or in the vicinity of the Property or (ii) the failure of remediation to mitigate risks to the extent required to make the Property fully protective of public health and the environment as planned in this Agreement.

g. The Department obtains new information about a contaminant associated with the Property or exposures at or around the Property that raises the risk to public health or the environment associated with the Property beyond an acceptable range and in a manner or to a degree not anticipated in this Agreement.

h. The Prospective Developer fails to file a timely and proper Notice of Brownfields Property under N.C.G.S. 130A-310.35.

24. Except as may be provided herein, DENR reserves its rights against Prospective Developer as to liabilities beyond the scope of the Act, including those regarding petroleum underground storage tanks pursuant to Part 2A, Article 21A of Chapter 143 of the General Statutes.

25. This Agreement does not waive any applicable requirement to obtain a permit, license or certification, or to comply with any and all other applicable law, including the North Carolina Environmental Policy Act, N.C.G.S. § 113A-1, et seq.

26. Consistent with N.C.G.S. § 130A-310.33, the liability protections provided herein, and any statutory limitations in paragraphs 23 through 25 above, apply to all of the persons listed in N.C.G.S. § 130A-310.33, including future owners of the property, to the same extent as Prospective Developer, so long as these persons are not otherwise potentially responsible parties or parents, subsidiaries, or affiliates of potentially responsible parties.

X. PROSPECTIVE DEVELOPER'S COVENANT NOT TO SUE

27. In consideration of DENR's Covenant Not To Sue in Section IX of this Agreement and in recognition of the absolute State immunity provided in N.C.G.S. § 130A-310.37(b), the Prospective Developer hereby covenants not to sue and not to assert any claims or causes of action against DENR, its authorized officers, employees, or representatives with respect to any action implementing the Act, including negotiating, entering, monitoring or enforcing this Agreement or the above-referenced Notice of Brownfields Property.

XI. PARTIES BOUND

28. This Agreement shall apply to and be binding upon DENR, and on the Prospective Developer, its officers, directors, employees, and agents. Each Party's signatory to this Agreement represents that she or he is fully authorized to enter into the terms and conditions of this Agreement and to legally bind the Party for whom she or he signs.

XII. DISCLAIMER

29. This Agreement in no way constitutes a finding by DENR as to the risks to public

health and the environment which may be posed by regulated substances at the Property, a representation by DENR that the Property is fit for any particular purpose, nor a waiver of Prospective Developer's duty to seek applicable permits or of the provisions of N.C.G.S. § 130A-310.37.

30. Except for the Land Use Restrictions set forth in paragraph 13 above and N.C.G.S. § 130A-310.33(a)(1)-(5)'s provision of the Act's liability protection to certain persons to the same extent as to a prospective developer, no rights, benefits or obligations conferred or imposed upon Prospective Developer under this Agreement are conferred or imposed upon any other person.

### XIII. DOCUMENT RETENTION

31. The Prospective Developer agrees to retain and make available to DENR all business and operating records, contracts, site studies and investigations, and documents relating to operations at the Property, for six (6) years following the effective date of this Agreement, unless otherwise agreed to in writing by the Parties. At the end of six (6) years, the Prospective Developer shall notify DENR of the location of such documents and shall provide DENR with an opportunity to copy any documents at the expense of DENR. To the extent DENR retains any copies of such documents, Prospective Developer retains all rights it then may have to seek protection from disclosure of such documents as confidential business information.

### XIV. PAYMENT OF ENFORCEMENT COSTS

32. If the Prospective Developer fails to comply with the terms of this Agreement, including, but not limited to, the provisions of Section V (Work to be Performed), it shall be liable for all litigation and other enforcement costs incurred by DENR to enforce this Agreement or otherwise obtain compliance.

XV. NOTICES AND SUBMISSIONS

33. Unless otherwise required by DENR or a Party notifies the other Party in writing of a change in contact information, all notices and submissions pursuant to this Agreement shall be sent by prepaid first class U.S. mail, as follows:

a. for DENR:

Tony Duque  
N.C. Division of Waste Management  
Brownfields Program  
Mail Service Center 1646  
Raleigh, NC 27699-1646

b. for Prospective Developer:

Kevin Pegram  
Reedy Fork Investments, LLC  
600 Green Valley Road, Suite 200  
Greensboro, NC 27408

and

George W. House  
Brooks, Pierce, McLendon, Humphrey & Leonard, LLP  
Post Office Box 26000  
Greensboro, NC 27420

Notices and submissions sent by prepaid first class U.S. mail shall be effective on the third day following postmarking. Notices and submissions sent by hand or by other means affording written evidence of date of receipt shall be effective on such date.

XVI. EFFECTIVE DATE

34. This Agreement shall become effective on the date the Prospective Developer signs it, after receiving it, signed, from DENR. Prospective Developer shall sign the Agreement

within seven (7) days following such receipt.

XVII. TERMINATION OF CERTAIN PROVISIONS

35. If any Party believes that any or all of the obligations under Section VI (Access/Notice to Successors in Interest) are no longer necessary to ensure compliance with the requirements of the Agreement, that Party may request in writing that the other Party agree to terminate the provision(s) establishing such obligations; provided, however, that the provision(s) in question shall continue in force unless and until the Party requesting such termination receives written agreement from the other Party to terminate such provision(s).

XVIII. CONTRIBUTION PROTECTION

36. With regard to claims for contribution against Prospective Developer in relation to the subject matter of this Agreement, Prospective Developer is entitled to protection from such claims to the extent provided by N.C.G.S. § 130A-310.37(a)(5)-(6). The subject matter of this Agreement is all remediation taken or to be taken and response costs incurred or to be incurred by DENR or any other person in relation to the Property.

37. The Prospective Developer agrees that, with respect to any suit or claim for contribution brought by it in relation to the subject matter of this Agreement, it will notify DENR in writing no later than 60 days prior to the initiation of such suit or claim.

38. The Prospective Developer also agrees that, with respect to any suit or claim for contribution brought against it in relation to the subject matter of this Agreement, it will notify DENR in writing within 10 days of service of the complaint on it.

XIX. PUBLIC COMMENT

39. This Agreement shall be subject to a public comment period of at least 30 days

starting the day after the last to occur of the following: publication of the approved summary of the Notice of Intent to Redevelop a Brownfields Property required by N.C.G.S. § 130A-310.34 in a newspaper of general circulation serving the area in which the Property is located, conspicuous posting of a copy of said summary at the Property, and mailing or delivery of a copy of the summary to each owner of property contiguous to the Property. After expiration of that period, or following a public meeting if DENR holds one pursuant to N.C.G.S. § 130A-310.34(c), DENR may modify or withdraw its consent to this Agreement if comments received disclose facts or considerations which indicate that this Agreement is inappropriate, improper or inadequate.

IT IS SO AGREED:

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

By: Michael E. Scott

Michael E. Scott  
Deputy Director, Division of Waste Management

9/12/14  
Date

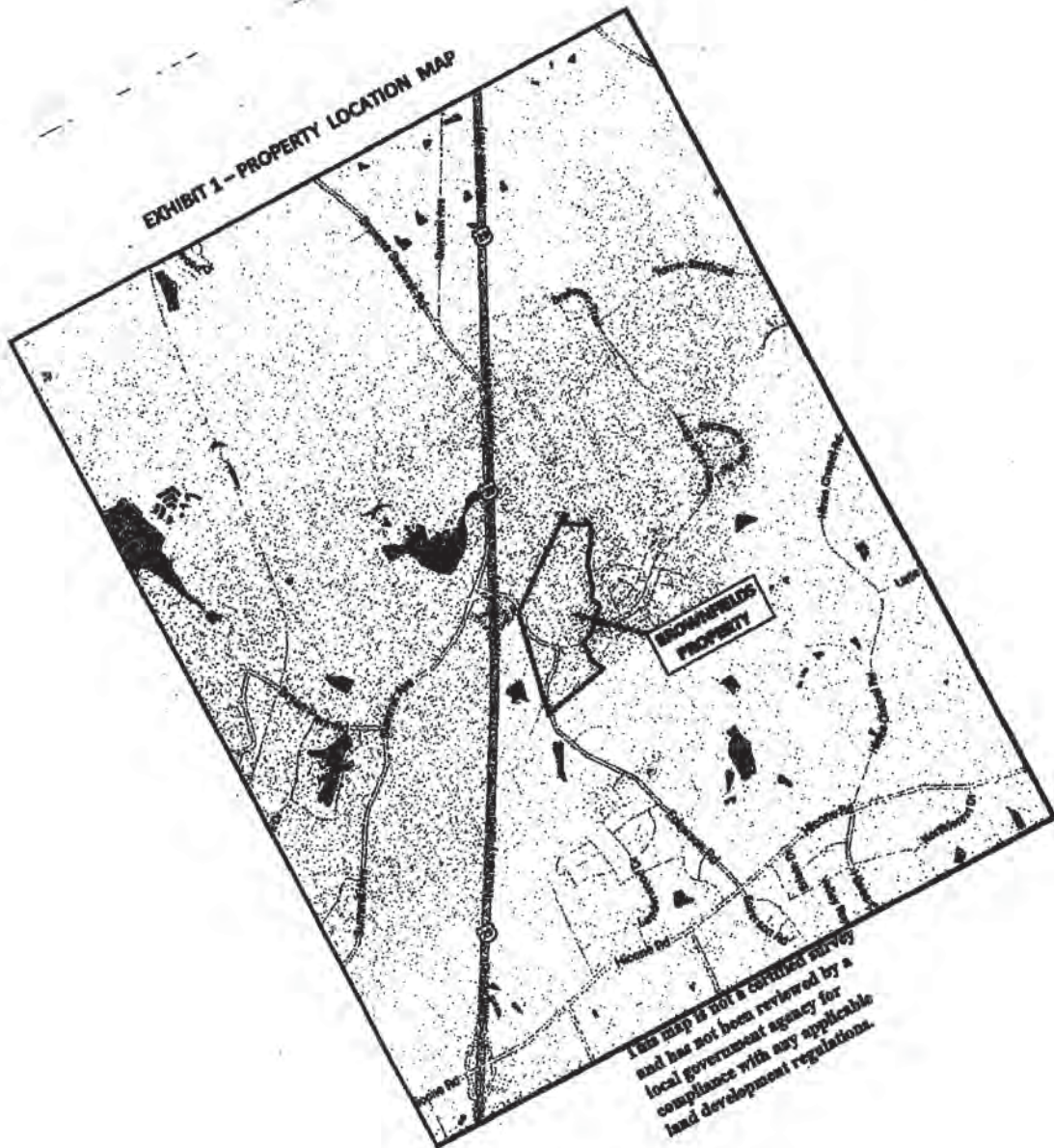
IT IS SO AGREED:

**REEDY FORK INVESTMENTS, LLC**

By: Coolidge A. Porterfield

Coolidge A. Porterfield  
Manager

9/23/14  
Date





**Exhibit 2 – Contaminant Tables****Table A - Groundwater Contaminants**

Groundwater Contaminant	Sample Location	Date of Maximum Concentration Sampling	Maximum Concentration above Unrestricted Use Screening Level ( $\mu\text{g/L}$ )	Unrestricted Industrial/Commercial Use Vapor Intrusion Screening Level <sup>1</sup> (for reference only) ( $\mu\text{g/L}$ )	Unrestricted Use 2L Groundwater Standard <sup>2</sup> (for reference only) ( $\mu\text{g/L}$ )
1,1-Dichloroethene	TW-1	6-25-08	52	160	350
	TW-16	6-26-08	2,100		
	TW-15	6-26-08	95		
	PWR-1	6-25-08	200		
	PWR-2	6-26-08	310		
	PWR-4	6-26-08	700		
	PWR-7	8-5-10	120		
	PWR-8	8-5-10	170		
	BR-1	6-26-08	500		
1,1-Dichloroethane	TW-16	6-26-08	170	330	6
	PWR-2	6-26-08	29		
	PWR-4	6-26-08	54		
	BR-1	6-26-08	38		
1,2-Dichloroethane	PWR-2	6-26-08	3.0	98	0.4
	PWR-8	8-5-10	1.4		
1,1,1-Trichloroethane	TW-16	6-26-08	810	6,300	200
1,4-Dioxane	TW-1	6-25-09	41	NS	3
	TW-16	6-26-08	1,000		
	TW-15	6-26-08	59		
	PWR-2	6-26-08	120		
	PWR-4	6-26-08	270		
	PWR-7	8-5-10	37		
	PWR-8	8-5-10	65		
	BR-1	6-26-08	190		

Notes: 1. Screening Levels are contained in NC DENR's Superfund Section's Inactive Hazardous Sites Branch (IHSB) "IHSB Industrial/Commercial Vapor Intrusion Screening Table," July 2012 version.

2. Groundwater Standard are contained in Title 15A of the North Carolina Administrative Code, Subchapter 2L, Rule .0202, April 1, 2013 version.

**Table B - Soil Gas Detections**

**Note:** Detected concentrations of compounds in soil gas do not exceed unrestricted industrial/commercial use vapor intrusion screening levels for soil gas.

Soil Gas Compound	Sample Location	Depth <sup>1</sup> (ft bgs <sup>2</sup> )	Date of Maximum Concentration Sampling	Maximum Concentration Detected ( $\mu\text{g}/\text{m}^3$ )	Unrestricted Use Screening Level <sup>3</sup> (for reference only) ( $\mu\text{g}/\text{m}^3$ )
1,1-Dichloroethene	VP-8 (TW-16 <sup>4</sup> )	30	9-30-2009	110	1,760
	VP-9 (PWR-4 <sup>4</sup> )	22	9-30-2009	<0.32	
	VP-10 (PWR-2 <sup>4</sup> )	20	9-30-2009	120	
1,1-Dichloroethane	VP-8 (TW-16 <sup>4</sup> )	30	9-30-2009	<3.1	770
	VP-9 (PWR-4 <sup>4</sup> )	22	9-30-2009	<3.3	
	VP-10 (PWR-2 <sup>4</sup> )	20	9-30-2009	4.1	
1,1,1-Trichloroethane	VP-8 (TW-16 <sup>4</sup> )	30	9-30-2009	37	44,000
	VP-9 (PWR-4 <sup>4</sup> )	22	9-30-2009	<4.5	
	VP-10 (PWR-2 <sup>4</sup> )	20	9-30-2009	60	

Notes: 1. Soil gas samples were collected from within the capillary fringe.

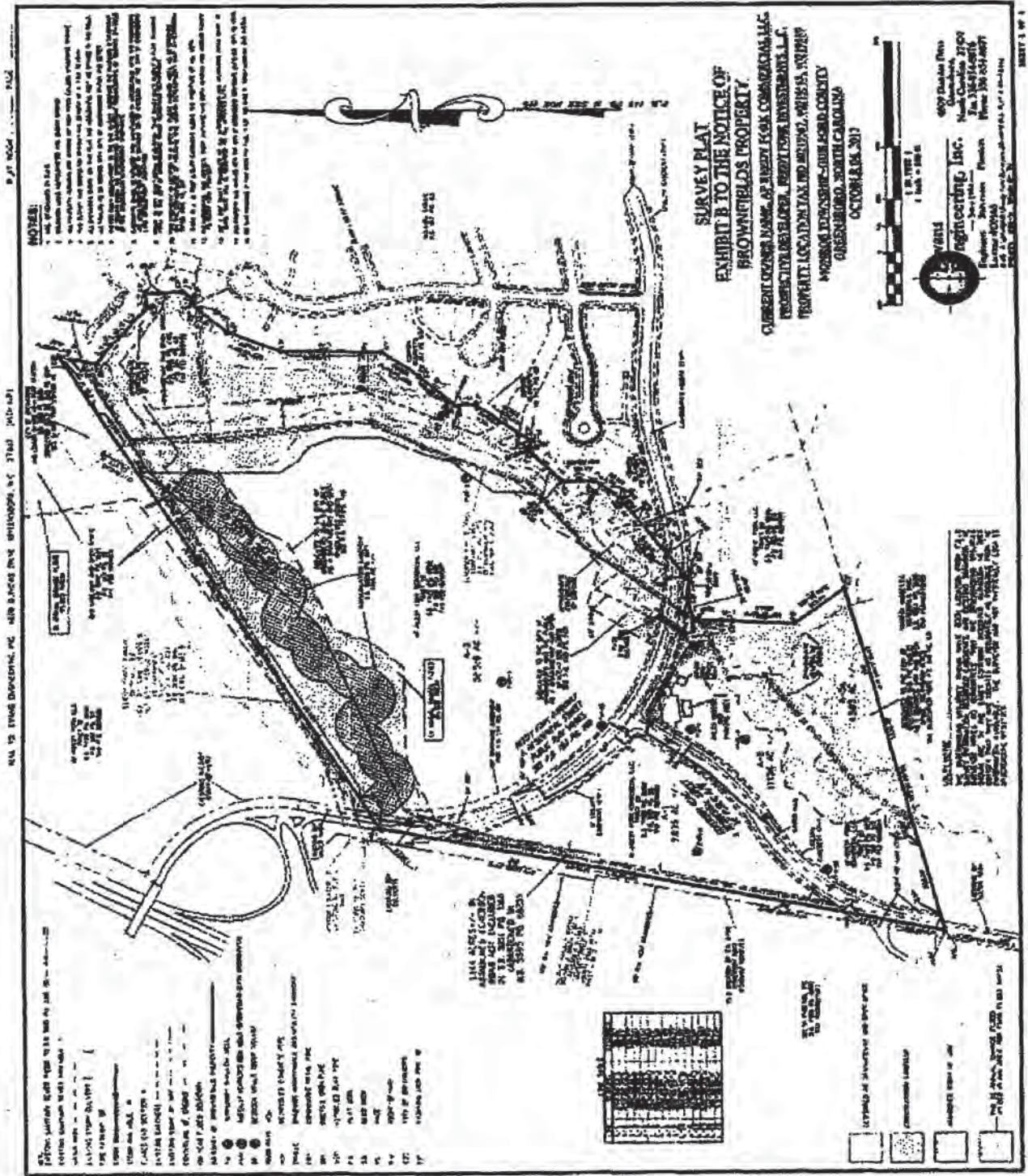
2. bgs = below ground surface

3. Soil gas screening levels are from NC DENR's Superfund Section's Inactive Hazardous Sites Branch (IHSB) "IHSB Industrial/Commercial Vapor Intrusion Screening Table," July 2012 version.

4. Soil gas sampling locations VP-8, VP-9 and VP-10 were paired with groundwater monitoring locations TW-16, PWR-4 and PWR-2, respectively.



EXHIBIT B - SURVEY PLAT



## EXHIBIT C - LEGAL DESCRIPTION

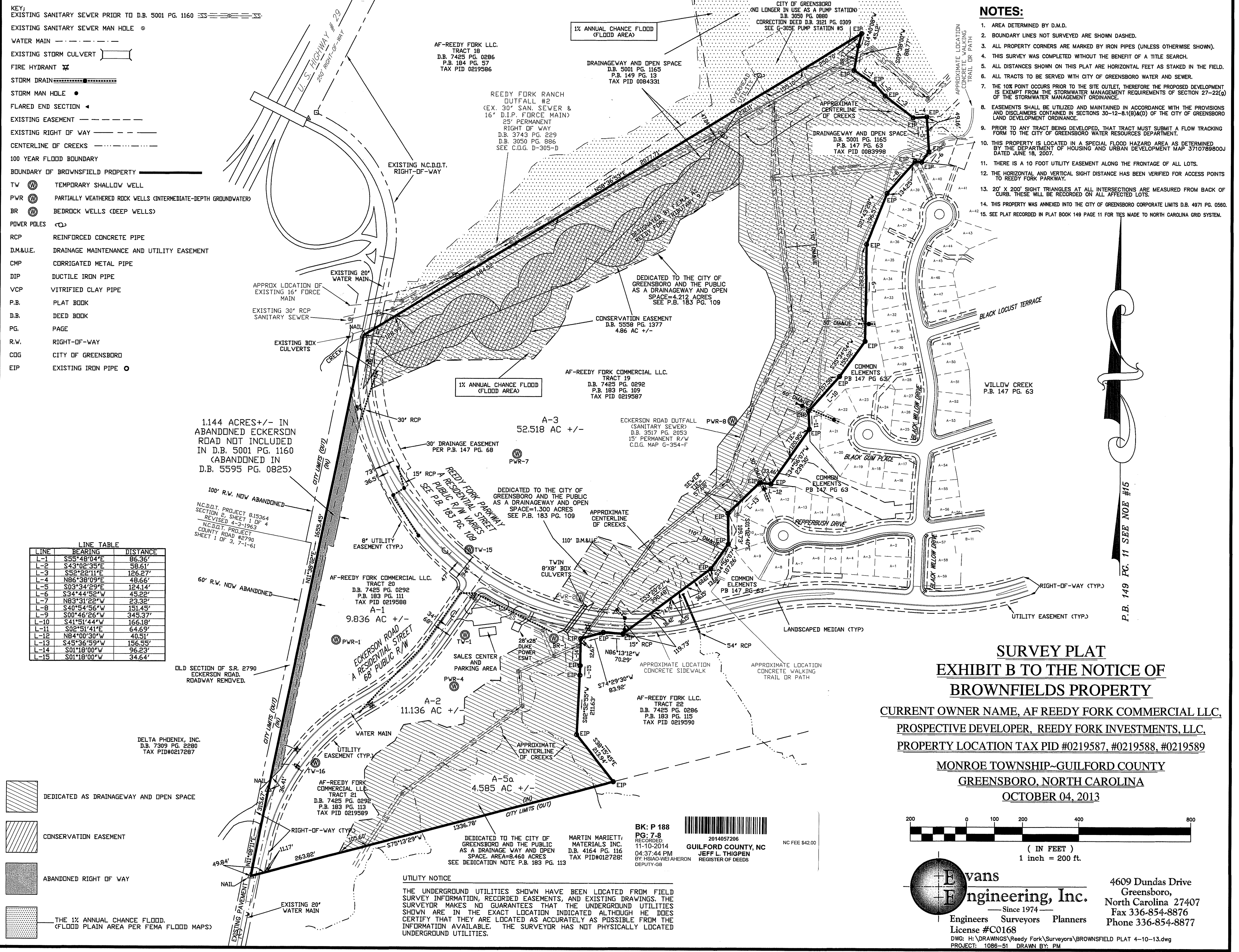
BEGINNING AT A NEW IRON PIPE IN THE NORTHERN LINE OF MARTIN MARIETTA MATERIALS, INC. AS RECORDED IN DEED BOOK 4164 PAGE 1180 ALSO BEING GUILFORD COUNTY TAX PARCEL 4-193-441-30, THENCE WITH THE NORTHERN LINE OF SAID MARTIN MARIETTA MATERIALS, INC. S 75 DEG. 13 MIN. 29 SEC. W DISTANCE BEING 1336.78 FEET TO A RAILROAD SPIKE IN THE CENTER OF ECKERSON ROAD (STATE ROAD 2790) THENCE WITH THE CENTERLINE OF SAID ECKERSON ROAD N 11 DEG. 08 MIN. 11 SEC. E DISTANCE BEING 315.67 FEET TO A POINT IN THE CENTERLINE OF NOW ABANDONED ECKERSON ROAD, THENCE WITH THE CENTERLINE OF NOW ABANDONED ECKERSON ROAD N 11 DEG. 38 MIN. 02 SEC. E DISTANCE BEING 1655.45 FEET TO A NAIL IN THE CENTERLINE OF OLD ECKERSON ROAD OVER AN EXISTING BOX CULVERT, THENCE WITH AN EASTERN LINE OF REEDY FORK EAST, LLC. AS RECORDED IN DEED BOOK 5001 PAGE 1165 N 58 DEG. 36 MIN. 53 SEC. E DISTANCE BEING 2077.71 FEET TO AN IRON PIPE, THENCE S 14 DEG. 40 MIN. 08 SEC. W DISTANCE BEING 45.12 FEET TO AN IRON PIPE, THENCE S 09 DEG. 38 MIN. 00 SEC. W DISTANCE BEING 88.77 FEET TO AN IRON PIPE, SAID IRON PIPE BEING A COMMON CORNER BETWEEN WILLOW CREEK AT REEDY FORK RANCH MAP 1 OF 2 AS RECORDED IN PLAT BOOK 147 PAGE 63 AND REEDY FORK RANCH DRAINAGEWAY AND OPEN SPACE DEDICATION SHEET 3 OF 4 AS RECORDED IN PLAT BOOK 149 PAGE 13, THENCE WITH THE NORTHERN LINE OF SAID WILLOW CREEK AT REEDY FORK RANCH MAP 1 OF 2 AS RECORDED IN PLAT BOOK 147 PAGE 63 S 55 DEG. 48 MIN. 04 SEC. E DISTANCE BEING 86.36 FEET TO AN IRON PIPE, THENCE S 43 DEG. 02 MIN. 35 SEC. E DISTANCE BEING 58.61 FEET TO AN IRON PIPE, THENCE S 52 DEG. 22 MIN. 11 SEC. E DISTANCE BEING 126.27 FEET TO A NEW IRON PIPE, THENCE N 86 DEG. 38 MIN. 09 SEC. E DISTANCE BEING 48.88 FEET TO A NEW IRON PIPE, THENCE S 03 DEG. 34 MIN. 29 SEC. E DISTANCE BEING 124.14 FEET TO A NEW IRON PIPE, THENCE S 34 DEG. 44 MIN. 52 SEC. W DISTANCE BEING 45.22 FEET TO A NEW IRON PIPE, THENCE N 83 DEG. 31 MIN. 22 SEC. W DISTANCE BEING 23.32 FEET TO A NEW IRON PIPE, THENCE S 40 DEG. 54 MIN. 56 SEC. W DISTANCE BEING 151.45 FEET TO A NEW IRON PIPE, THENCE S 21 DEG. 43 MIN. 28 SEC. W DISTANCE BEING 186.57 FEET TO A NEW IRON PIPE, THENCE S 00 DEG. 46 MIN. 26 SEC. W DISTANCE BEING 345.37 FEET TO A NEW IRON PIPE, THENCE S 35 DEG. 34 MIN. 04 SEC. W DISTANCE BEING 155.02 FEET TO A NEW IRON PIPE, THENCE S 41 DEG. 51 MIN. 44 SEC. W DISTANCE BEING 166.18 FEET TO A NEW IRON PIPE, THENCE S 02 DEG. 51 MIN. 41 SEC. E DISTANCE BEING 64.89 FEET TO A NEW IRON PIPE, THENCE S 34 DEG. 58 MIN. 07 SEC. W DISTANCE BEING 238.30 FEET TO A NEW IRON PIPE, THENCE N 84 DEG. 00 MIN. 30 SEC. W DISTANCE BEING 40.51 FEET TO A NEW IRON PIPE, THENCE S 45 DEG. 36 MIN. 59 SEC. W DISTANCE BEING 156.55 FEET TO A NEW IRON PIPE, THENCE S 01 DEG. 02 MIN. 40 SEC. E DISTANCE BEING 109.73 FEET TO A NEW IRON PIPE, THENCE S 34 DEG. 56 MIN. 07 SEC. W DISTANCE BEING 107.26 FEET TO A NEW IRON PIPE, THENCE S 53 DEG. 20 MIN. 27 SEC. W DISTANCE BEING 390.48 FEET TO A NEW IRON PIPE ON THE SOUTHERN RIGHT OF WAY FOR REEDY FORK PARKWAY, THENCE WITH THE SOUTHERN RIGHT OF WAY FOR REEDY FORK PARKWAY BEING A CURVE TO THE RIGHT HAVING A RADIUS OF 989.00 FEET CHORD BEARING OF N 88 DEG. 13 MIN. 12 SEC. W CHORD DISTANCE BEING 70.29 FEET TO A NEW IRON PIPE, THENCE S 74 DEG. 29 MIN. 30 SEC. W DISTANCE BEING 83.92 FEET TO A NEW IRON PIPE, THENCE S 01 DEG. 18 MIN. 00 SEC. W DISTANCE BEING 96.23 FEET TO A NEW IRON PIPE, THENCE S 02 DEG. 52 MIN. 55 SEC. W DISTANCE BEING 211.83 FEET TO A NEW IRON PIPE, THENCE S 38 DEG. 15 MIN. 45 SEC. E DISTANCE BEING 213.94 FEET TO THE POINT AND PLACE OF BEGINNING CONTAINING 78.075 ACRES MORE OR LESS

- KEY:**
- EXISTING SANITARY SEWER PRIOR TO D.B. 5001 PG. 1160
  - EXISTING SANITARY SEWER MAN HOLE
  - WATER MAIN
  - EXISTING STORM CULVERT
  - FIRE HYDRANT
  - STORM DRAIN
  - STORM MAN HOLE
  - FLARED END SECTION
  - EXISTING EASEMENT
  - EXISTING RIGHT OF WAY
  - CENTERLINE OF CREEKS
  - 100 YEAR FLOOD BOUNDARY
  - BOUNDARY OF BROWNSFIELD PROPERTY
  - TV TEMPORARY SHALLOW WELL
  - PWR PARTIALLY WEATHERED ROCK WELLS (INTERMEDIATE-DEPTH GROUNDWATER)
  - BR BEDROCK WELLS (DEEP WELLS)
  - POWER POLES
  - RCP REINFORCED CONCRETE PIPE
  - D.M.&U.E. DRAINAGE MAINTENANCE AND UTILITY EASEMENT
  - CMP CORRUGATED METAL PIPE
  - DIP DUCTILE IRON PIPE
  - VCP VITRIFIED CLAY PIPE
  - P.B. PLAT BOOK
  - D.B. DEED BOOK
  - PG. PAGE
  - R.W. RIGHT-OF-WAY
  - COG CITY OF GREENSBORO
  - EIP EXISTING IRON PIPE

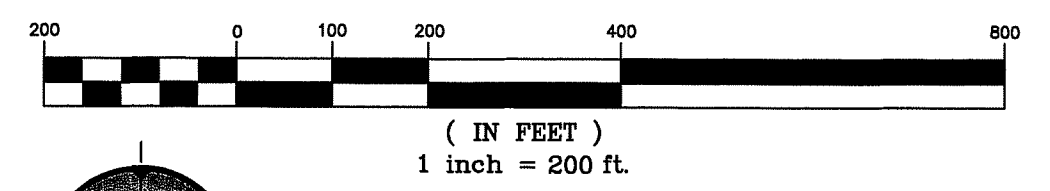
- NOTES:**
1. AREA DETERMINED BY D.M.D.
  2. BOUNDARY LINES NOT SURVEYED ARE SHOWN DASHED.
  3. ALL PROPERTY CORNERS ARE MARKED BY IRON PIPES (UNLESS OTHERWISE SHOWN).
  4. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE SEARCH.
  5. ALL DISTANCES SHOWN ON THIS PLAT ARE HORIZONTAL FEET AS STAKED IN THE FIELD.
  6. ALL TRACTS TO BE SERVED WITH CITY OF GREENSBORO WATER AND SEWER.
  7. THE 10% POINT OCCURS PRIOR TO THE SITE OUTLET, THEREFORE THE PROPOSED DEVELOPMENT IS EXEMPT FROM THE STORMWATER MANAGEMENT REQUIREMENTS OF SECTION 27-22(g) OF THE STORMWATER MANAGEMENT ORDINANCE.
  8. EASEMENTS SHALL BE UTILIZED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS AND DISCLAIMERS CONTAINED IN SECTIONS 30-12-8.1(B)&(D) OF THE CITY OF GREENSBORO LAND DEVELOPMENT ORDINANCE.
  9. PRIOR TO ANY TRACT BEING DEVELOPED, THAT TRACT MUST SUBMIT A FLOW TRACKING FORM TO THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT.
  10. THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT MAP 3710789800J DATED JUNE 18, 2007.
  11. THERE IS A 10 FOOT UTILITY EASEMENT ALONG THE FRONTAGE OF ALL LOTS.
  12. THE HORIZONTAL AND VERTICAL SIGHT DISTANCE HAS BEEN VERIFIED FOR ACCESS POINTS TO REEDY FORK PARKWAY.
  13. 20' X 20' SIGHT TRIANGLES AT ALL INTERSECTIONS ARE MEASURED FROM BACK OF CURB. THESE WILL BE RECORDED ON ALL AFFECTED LOTS.
  14. THIS PROPERTY WAS ANNEXED INTO THE CITY OF GREENSBORO CORPORATE LIMITS D.B. 4971 PG. 0560.
  15. SEE PLAT RECORDED IN PLAT BOOK 149 PAGE 11 FOR TIES MADE TO NORTH CAROLINA GRID SYSTEM.

**LINE TABLE**

LINE	BEARING	DISTANCE
L-1	S55°48'04"E	86.36'
L-2	S43°02'35"E	58.61'
L-3	S52°22'11"E	126.27'
L-4	N86°38'09"E	48.66'
L-5	S03°34'29"E	124.14'
L-6	S34°44'52"W	45.22'
L-7	N83°31'22"W	23.32'
L-8	S40°54'56"W	151.45'
L-9	S00°46'26"W	345.37'
L-10	S41°51'44"W	166.18'
L-11	S02°51'41"E	64.69'
L-12	N84°00'30"W	40.51'
L-13	S45°36'59"W	156.55'
L-14	S01°18'00"W	96.23'
L-15	S01°18'00"W	34.64'



**SURVEY PLAT**  
**EXHIBIT B TO THE NOTICE OF**  
**BROWNFIELDS PROPERTY**  
 CURRENT OWNER NAME, AF REEDY FORK COMMERCIAL LLC,  
 PROSPECTIVE DEVELOPER, REEDY FORK INVESTMENTS, LLC,  
 PROPERTY LOCATION TAX PID #0219587, #0219588, #0219589  
 MONROE TOWNSHIP-GUILFORD COUNTY  
 GREENSBORO, NORTH CAROLINA  
 OCTOBER 04, 2013



**Evans Engineering, Inc.**  
 —Since 1974—  
 Engineers Surveyors Planners  
 License #C0168  
 DWG: H:\DRAWINGS\Reedy Fork\Surveyors\BROWNSFIELD PLAT 4-10-13.dwg  
 PROJECT: 1086-51 DRAWN BY: PM

4609 Dundas Drive  
 Greensboro,  
 North Carolina 27407  
 Fax 336-854-8876  
 Phone 336-854-8877

THE UNDERSIGNED HEREBY ACKNOWLEDGE(S) THIS PLAT AND ALLLOTMENT TO BE THEIR FREE ACT AND DEED AND HEREBY DEDICATE(S) TO PUBLIC USE AS STREETS, PLAYGROUNDS, PARKS, OPEN SPACES AND EASEMENTS FOREVER ALL AREAS SO SHOWN OR INDICATED ON SAID PLAT, AND AUTHORIZES(S) THE CITY OF GREENSBORO TO RECORD THIS PLAT IN THE OFFICE OF THE REGISTER OF DEEDS OF GUILFORD COUNTY, NC.

AF-REEDY FORK COMMERCIAL LLC, BY RECORDATION OF THIS PLAT, HEREBY GIVES, GRANTS AND CONVEYS TO AT&T, DUKE ENERGY, PIEDMONT NATURAL GAS COMPANY, TIME WARNER CABLE AND THE CITY OF GREENSBORO, THEIR RESPECTIVE SUCCESSORS AND ASSIGNS RIGHT-OF-WAY AND EASEMENTS TO MAINTAIN AND SERVICE THEIR RESPECTIVE WIRES, LINES, CONDUITS AND PIPES IN THEIR PRESENT LOCATIONS TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS AS NECESSARY, FOR THE PURPOSE OF MAINTAINING AND SERVICING SAID WIRES, LINES, CONDUITS AND PIPES.

WHEN GRADE OF ADJACENT PROPERTY DOES NOT CONFORM TO THE STREET GRADE, AN EASEMENT IS EFFECTIVE FOR THE PURPOSE OF SLOPING EMBANKMENTS FROM STREET GRADE LEVEL AT THE PROPERTY LINE HAVING A SLOPE RATIO OF THREE FEET HORIZONTAL FOR EACH FOOT OF VERTICAL DIMENSIONS.

AF-REEDY FORK COMMERCIAL LLC,  
BY: Craig A. Bui (919) 861-2910  
MANAGER  
ATTEST: James A. Oliver  
JAMES A. OLIVER, ATTORNEY FOR  
AF-REEDY FORK COMMERCIAL, LLC

SURVEYOR'S  
"I, ROBERT S. DISCHINGER, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book 7425, Page 286/292, etc.) (Other); that the boundaries not surveyed are clearly indicated as drawn from information found in Book SEE, Page MAP; that the ratio of precision as calculated is 1:10,000+; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number and Seal this 4th day of October, A.D., 20 13.

THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.  
Robert S. Dischinger  
NORTH CAROLINA PROFESSIONAL LAND SURVEYOR  
NO. 4521  
ROBERT S. DISCHINGER

This plat does not require a certificate of approval by the Division of Highways as provided in G.S. 136-102.6, subsection (G).  
Signed Steve Date 11/7/14  
DIRECTOR OF PLANNING

Approved for recordation by the City of Greensboro, North Carolina on the 7th day of NOV, 2014 pursuant to the Greensboro Development Ordinance.  
Michael E. Scott 11/7/14  
Planning Director

STATE OF NORTH CAROLINA  
GUILFORD COUNTY  
I, Nicole Wood, REVIEW OFFICER FOR THE CITY OF GREENSBORO, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL THE STATUTORY REQUIREMENTS FOR RECORDING.  
Nicole Wood 11/10/14  
REVIEW OFFICER DATE

Approved Michael E. Scott FOR THE PURPOSES OF N.C.G.S. 130A-310.35  
9/12/14  
MICHAEL E. SCOTT  
DEPUTY DIRECTOR  
DIVISION OF WASTE MANAGEMENT  
STATE OF NORTH CAROLINA

LEGAL DESCRIPTION OF BROWNSFIELD PROPERTY

BEGINNING AT A NEW IRON PIPE IN THE NORTHERN LINE OF MARTIN MARIETTA MATERIALS, INC. AS RECORDED IN DEED BOOK 4164 PAGE 1160 ALSO BEING GUILFORD COUNTY TAX PARCEL 4-193-441-30, THENCE WITH THE NORTHERN LINE OF SAID MARTIN MARIETTA MATERIALS, INC. S 75 DEG. 13 MIN. 29 SEC. W DISTANCE BEING 1336.78 FEET TO A RAILROAD SPIKE IN THE CENTER OF ECKERSON ROAD (STATE ROAD 2790) THENCE WITH THE CENTERLINE OF SAID ECKERSON ROAD N 11 DEG. 08 MIN. 11 SEC. E DISTANCE BEING 315.67 FEET TO A POINT IN THE CENTERLINE OF NOW ABANDONED ECKERSON ROAD, THENCE WITH THE CENTERLINE OF NOW ABANDONED ECKERSON ROAD N 11 DEG. 38 MIN. 02 SEC. E DISTANCE BEING 1655.45 FEET TO A NAIL IN THE CENTERLINE OF OLD ECKERSON ROAD OVER AN EXISTING BOX CULVERT, THENCE WITH AN EASTERN LINE OF REEDY FORK EAST, LLC. AS RECORDED IN DEED BOOK 5001 PAGE 1165 N 58 DEG. 36 MIN. 53 SEC. E DISTANCE BEING 2077.71 FEET TO AN IRON PIPE, THENCE S 14 DEG. 40 MIN. 08 SEC. W DISTANCE BEING 4512 FEET TO AN IRON PIPE, THENCE S 09 DEG. 38 MIN. 00 SEC. W DISTANCE BEING 88.77 FEET TO AN IRON PIPE, SAID IRON PIPE BEING A COMMON CORNER BETWEEN WILLOW CREEK AT REEDY FORK RANCH MAP 1 OF 2 AS RECORDED IN PLAT BOOK 147 PAGE 63 AND REEDY FORK RANCH DRAINAGEWAY AND OPEN SPACE DEDICATION SHEET 3 OF 4 AS RECORDED IN PLAT BOOK 149 PAGE 13, THENCE WITH THE NORTHERN LINE OF SAID WILLOW CREEK AT REEDY FORK RANCH MAP 1 OF 2 AS RECORDED IN PLAT BOOK 147 PAGE 63 S 55 DEG. 48 MIN. 04 SEC. E DISTANCE BEING 86.36 FEET TO AN IRON PIPE, THENCE S 43 DEG. 02 MIN. 35 SEC. E DISTANCE BEING 58.61 FEET TO AN IRON PIPE, THENCE S 52 DEG. 22 MIN. 11 SEC. E DISTANCE BEING 126.27 FEET TO A NEW IRON PIPE, THENCE N 86 DEG. 38 MIN. 09 SEC. E DISTANCE BEING 48.66 FEET TO A NEW IRON PIPE, THENCE S 03 DEG. 34 MIN. 29 SEC. E DISTANCE BEING 124.14 FEET TO A NEW IRON PIPE, THENCE S 34 DEG. 44 MIN. 52 SEC. W DISTANCE BEING 45.22 FEET TO A NEW IRON PIPE, THENCE N 83 DEG. 31 MIN. 22 SEC. W DISTANCE BEING 239.30 FEET TO A NEW IRON PIPE, THENCE S 40 DEG. 54 MIN. 56 SEC. W DISTANCE BEING 151.45 FEET TO A NEW IRON PIPE, THENCE S 21 DEG. 43 MIN. 28 SEC. W DISTANCE BEING 196.57 FEET TO A NEW IRON PIPE, THENCE S 00 DEG. 46 MIN. 26 SEC. W DISTANCE BEING 345.37 FEET TO A NEW IRON PIPE, THENCE S 35 DEG. 34 MIN. 04 SEC. W DISTANCE BEING 155.02 FEET TO A NEW IRON PIPE, THENCE S 02 DEG. 51 MIN. 44 SEC. W DISTANCE BEING 166.18 FEET TO A NEW IRON PIPE, THENCE S 02 DEG. 51 MIN. 41 SEC. E DISTANCE BEING 64.69 FEET TO A NEW IRON PIPE, THENCE S 24 DEG. 56 MIN. 07 SEC. W DISTANCE BEING 40.51 FEET TO A NEW IRON PIPE, THENCE N 84 DEG. 00 MIN. 30 SEC. W DISTANCE BEING 40.51 FEET TO A NEW IRON PIPE, THENCE S 45 DEG. 36 MIN. 59 SEC. W DISTANCE BEING 156.55 FEET TO A NEW IRON PIPE, THENCE S 01 DEG. 02 MIN. 40 SEC. E DISTANCE BEING 109.73 FEET TO A NEW IRON PIPE, THENCE S 34 DEG. 56 MIN. 07 SEC. W DISTANCE BEING 107.26 FEET TO A NEW IRON PIPE, THENCE S 53 DEG. 20 MIN. 27 SEC. W DISTANCE BEING 390.48 FEET TO A NEW IRON PIPE ON THE SOUTHERN RIGHT OF WAY FOR REEDY FORK PARKWAY, THENCE WITH THE SOUTHERN RIGHT OF WAY FOR REEDY FORK PARKWAY BEING A CURVE TO THE RIGHT HAVING A RADIUS OF 989.00 FEET CHORD BEARING OF N 86 DEG. 13 MIN. 12 SEC. W CHORD DISTANCE BEING 70.29 FEET TO A NEW IRON PIPE, THENCE S 74 DEG. 29 MIN. 30 SEC. W DISTANCE BEING 83.92 FEET TO A NEW IRON PIPE, THENCE S 01 DEG. 18 MIN. 00 SEC. W DISTANCE BEING 86.23 FEET TO A NEW IRON PIPE, THENCE S 01 DEG. 18 MIN. 00 SEC. W DISTANCE BEING 34.64 FEET TO A NEW IRON PIPE, THENCE S 02 DEG. 52 MIN. 55 SEC. W DISTANCE BEING 211.63 FEET TO A NEW IRON PIPE, THENCE S 38 DEG. 15 MIN. 45 SEC. E DISTANCE BEING 213.94 FEET TO THE POINT AND PLACE OF BEGINNING CONTAINING 78.075 ACRES MORE OR LESS

LAND USE RESTRICTIONS

- 1. No use may be made of the Brownsfields Property other than for commercial retail and office use or other commercial uses approved in advance and in writing by DENR. For purposes of this restriction, the following definitions apply: a. Retail shall mean the sale of goods directly to the consumer; and b. Office shall mean places where business or professional services (including medical services) are rendered.
- 2. Any future demolition of buildings constructed on the Brownsfields Property shall be conducted in strict accordance with applicable legal requirements, including without limitation those related to lead and asbestos abatement that are administered by the Health Hazards Control Unit within the Division of Public Health of the North Carolina Department of Health and Human Services or its successors in function.
- 3. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools, or construction or excavation activities that encounter or expose groundwater) may occur on the Brownsfields Property without DENR's prior written approval on such conditions as DENR determines are warranted, which may include prior sampling and analysis of groundwater to DENR's written satisfaction. If sampling occurs and discloses to DENR contamination that DENR determines may place at risk the Brownsfields Property's suitability for the use specified in land use restriction 1, above or public health or the environment, the proposed activities may not occur without the prior written approval of DENR on such conditions as DENR imposes, including at a minimum compliance with plans and procedures approved pursuant to applicable law, to protect public health and the environment during the proposed activities.
- 4. No building may be constructed on the Brownsfields Property unless and until DENR determines in writing that: a. the building would be sufficiently distant from the Brownsfields Property's groundwater contamination and/or soil contamination that the building's users, public health and the environment will be protected from risk from vapor intrusion related to said contamination; or b. a plan for a vapor intrusion mitigation system, approved in writing by DENR in advance and including a proposed performance assessment for demonstration of the system's protection of the building's users, public health and the environment from risk from vapor intrusion, is implemented to the satisfaction of a North Carolina-licensed professional engineer as reflected by an implementation report bearing the seal of said engineer, that includes photographs and a description of the installation and performance assessment of the mitigation system.
- 5. Soil may not be disturbed at the Brownsfields Property at a depth greater than fifteen (15) feet below the surface of the ground without DENR's prior written approval and on such conditions 1) as DENR determines are warranted to ensure the Brownsfields Property is suitable for the uses specified above in land use restriction 1.
- 6. The Brownsfields Property may not be used as a playground, or for child care centers or schools.
- 7. No mining may be conducted on or under the Brownsfields Property, including, without limitation, extraction of coal, oil, gas or any other minerals or non-mineral substances.
- 8. No basements may be constructed on the Brownsfields Property unless they are, as determined in writing by DENR, vented in conformance with applicable building codes.
- 9. None of the contaminants known to be present in the environmental media at the Brownsfields Property, including those referenced above in paragraph 7 of, or listed in Exhibit 2 to, Exhibit A hereto, may be used or stored at the Brownsfields Property without the prior written approval of DENR, except in de minimis amounts for cleaning and other routine housekeeping activities.
- 10. The owner of any portion of the Brownsfields Property where any existing or later DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR.
- 11. Neither DENR, nor any party conducting environmental assessment or remediation at the Brownsfields Property at the direction of, or pursuant to a permit, order or agreement issued or entered into by DENR, may be denied access to the Brownsfields Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Brownsfields Property.
- 12. During January of each year after the year in which this Notice is recorded, the owner of any part of the Brownsfields Property as of January 1st of that year shall submit a Notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Guilford County, certifying that, as of said January 1st, this Notice containing these land use restrictions remains recorded at the Guilford County Register of Deeds office and that the land use restrictions are being complied with, and stating: a. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Brownsfields Property during the previous calendar year; b. the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Brownsfields Property during the previous calendar year; and c. whether any vapor barrier and/or mitigation systems installed pursuant to land use restriction 4.b. above are performing as designed, and whether the uses of the ground floors of any buildings containing such vapor barrier and/or mitigation systems have changed, and, if so, how.

Exhibit 2 - Contaminant Tables

Table A - Groundwater Contaminants

Groundwater Contaminant	Sample Location	Date of Maximum Concentration Sampling	Maximum Concentration above Unrestricted Use Screening Level (ug/L)	Unrestricted Industrial/Commercial Use Vapor Intrusion Screening Level* (for reference only) (ug/L)	Unrestricted Use 2L Groundwater Standard* (for reference only) (ug/L)
1,1-Dichloroethene	TW-1	6-25-08	52	160	350
	TW-16	6-26-08	2,100		
	TW-15	6-26-08	95		
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	PWR-7	8-5-10	120		
	PWR-8	8-5-10	170		
1,1-Dichloroethane	BR-1	6-26-08	500	330	6
	TW-16	6-26-08	170		
	PWR-2	6-26-08	29		
1,2-Dichloroethane	PWR-2	6-26-03	3.0	98	0.4
	PWR-8	8-5-10	1.4		
	PWR-2	6-26-08	1.4		
1,1,1-Trichloroethane	TW-16	6-26-08	810	6,300	200
	TW-1	6-25-09	41		
1,4-Dioxane	TW-16	6-26-08	1,000	NS	3
	TW-15	6-26-08	59		
	PWR-2	6-26-08	120		
	PWR-4	6-26-08	270		
	PWR-7	8-5-10	37		
	PWR-8	8-5-10	65		

Notes: 1. Screening Levels are contained in NCDENR's Superfund Section's Inactive Hazardous Sites Branch (HSB) "HSB Industrial/Commercial Vapor Intrusion Screening Table," July 2012 version.  
2. Groundwater Standard are contained in Title 15A of the North Carolina Administrative Code, Subchapter 2L, Rule .0202, April 1, 2013 version.

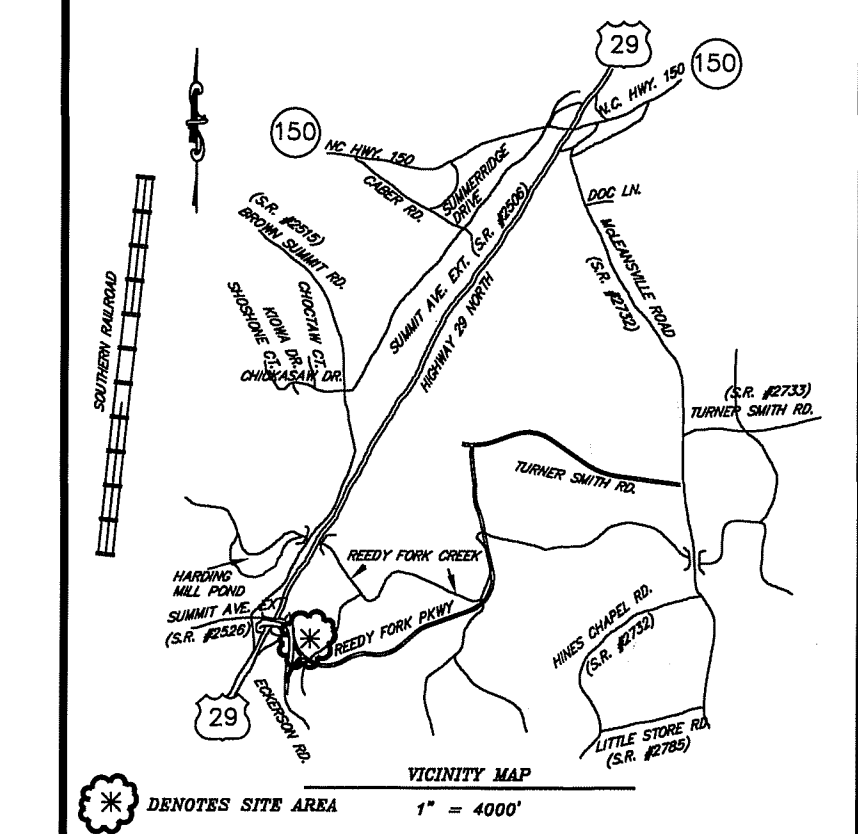
Table B - Soil Gas Detections

Note: Detected concentrations of compounds in soil gas do not exceed unrestricted industrial/commercial use vapor intrusion screening levels for soil gas.

Soil Gas Compound	Sample Location	Depth <sup>1</sup> (ft bgs)	Date of Maximum Concentration Sampling	Maximum Concentration Detected (ug/m <sup>3</sup> )	Unrestricted Use Screening Level <sup>2</sup> (for reference only) (ug/m <sup>3</sup> )
1,1-Dichloroethene	VP-8 (TW-16)	30	9-30-2009	110	1,760
	VP-9 (PWR-4)	22	9-30-2009	<0.32	
	VP-10 (PWR-2)	20	9-30-2009	120	
1,1-Dichloroethane	VP-8 (TW-16)	30	9-30-2009	<3.1	770
	VP-9 (PWR-4)	22	9-30-2009	<3.3	
	VP-10 (PWR-2)	20	9-30-2009	4.1	
1,1,1-Trichloroethane	VP-8 (TW-16)	30	9-30-2009	37	44,000
	VP-9 (PWR-4)	22	9-30-2009	<4.5	
	VP-10 (PWR-2)	20	9-30-2009	60	

Notes: 1. Soil gas samples were collected from within the capillary fringe.  
2. bgs = below ground surface  
3. Soil gas screening levels are from NCDENR's Superfund Section's Inactive Hazardous Sites Branch (HSB) "HSB Industrial/Commercial Vapor Intrusion Screening Table," July 2012 version.  
4. Soil gas sampling locations VP-8, VP-9 and VP-10 were paired with groundwater monitoring locations TW-16, PWR-4 and PWR-2, respectively.

\*THE SAMPLE LOCATIONS OR DESIGNATED CONTAMINATED AREA(S) AND TYPES OF CONTAMINATION DEPICTED HEREON ARE APPROXIMATIONS DERIVED FROM THE BEST AVAILABLE INFORMATION AT THE TIME OF FILING.\*

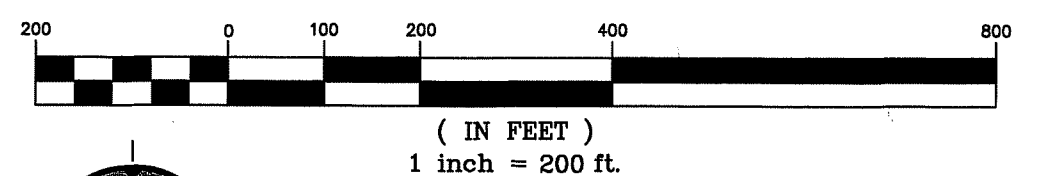


VICINITY MAP  
DENOTES SITE AREA  
1" = 4000'

BK: P 188  
PG: 7-9  
RECORDED:  
11-10-2014  
04:37:44 PM  
BY: HSIAG-WEI/AHERON  
DEPUTY-GD  
2014057206  
GUILFORD COUNTY, NC  
JEFF L. THIGPEN  
REGISTER OF DEEDS  
NC FEE \$42.00

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GREENSBORO, NORTH CAROLINA  
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North Carolina 27407  
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**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
<i>NCAC 2L Standard</i>		<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>
<i>Risk Based Screening Level <sup>1</sup></i>		<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)

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**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-10</b>	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
<b>MW-11</b>	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
<b>MW-12</b>	5/17/1995	ND	ND	ND	2.4	ND	NS	ND	2.1	ND	ND	ND
<b>MW-13D</b>	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
<b>MW-14</b>	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
<b>MW-15</b>	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
<b>MW-16D</b>	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
<b>MW-17</b>	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

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**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-18	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
MW-19	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
MW-20	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
MW-21D	3/27/2008	ND	<b>8.6</b>	ND	<b>23</b>	1.2	<b>61</b>	ND	13	ND	<b>5.4</b>	ND
	6/25/2008	ND	<b>11</b>	ND	<b>43</b>	0.98J	<b>70</b>	ND	19	ND	<b>5.5</b>	ND
	10/1/2008	ND	<b>10</b>	ND	<b>32</b>	1.1	<b>62</b>	ND	13	ND	<b>5.3</b>	ND
MW-22	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
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
	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
WSW-D	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
PWR-1	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)

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**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>

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**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>

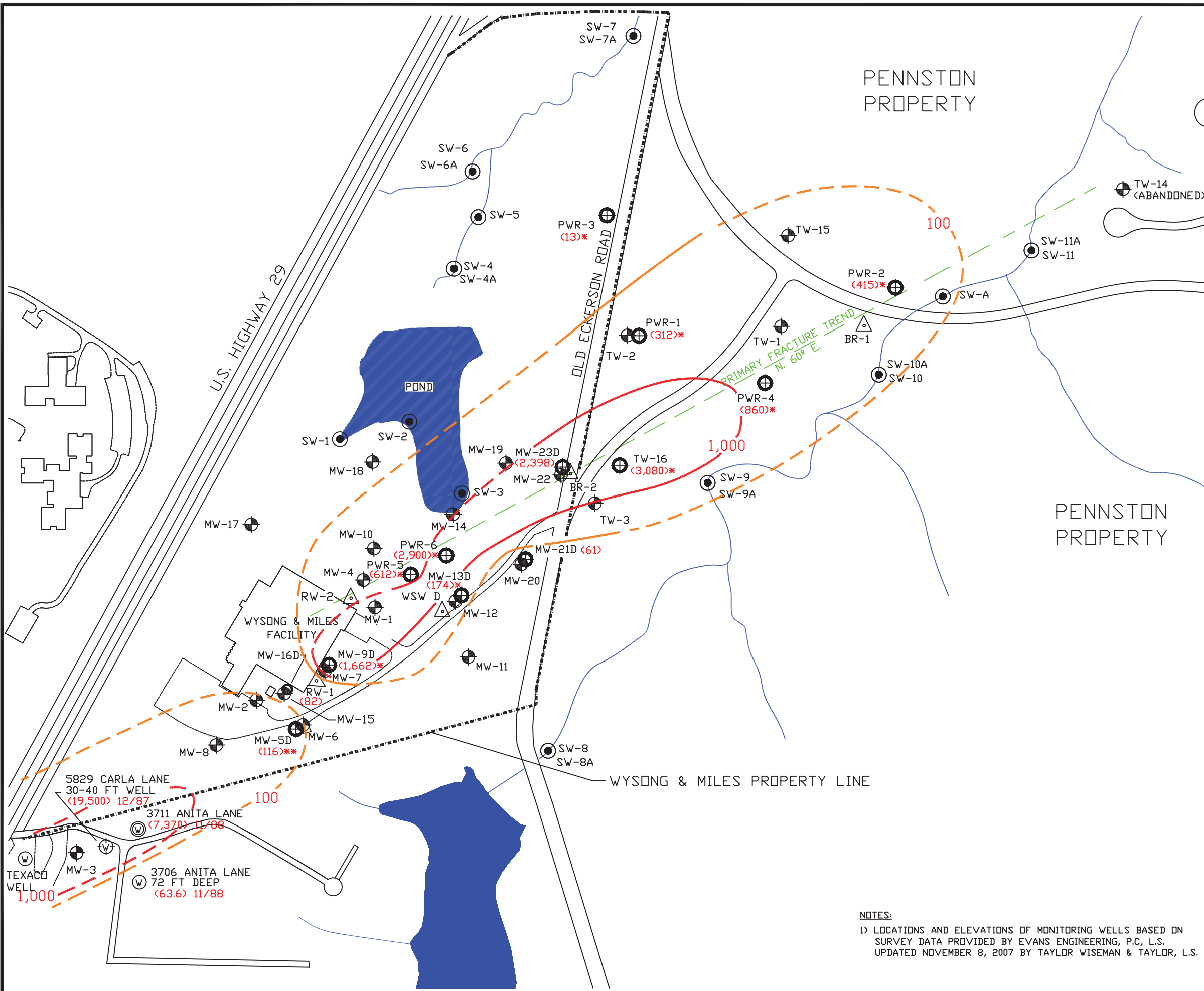
NOTES:

"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

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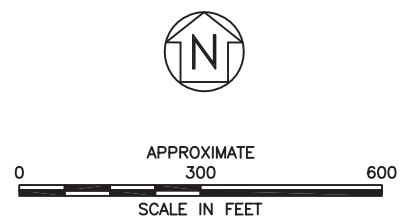


**LEGEND:**

- 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** 3334 Hillsborough Street  
 Raleigh, North Carolina 27607  
 A PROFESSIONAL CORPORATION 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.





**Table 1**  
**Summary of Groundwater Analytical Results**  
**August 2010**  
**Wysong & Miles**  
**Greensboro, North Carolina**  
**H&H Project No. WYM-003**

Compound	NC Ground Water Standard <sup>1</sup>	Vapor Intrusion Screening Levels <sup>2</sup>	PWR-7	PWR-8
compounds exceeding 2L	Concentrations in (µg/L)			
1,1-Dichloroethene	7	38	<b>120</b>	<b>170</b>
1,4-Dioxane	3	NE	<b>37</b>	<b>65</b>
1,2-Dichloroethane	0.4	20	<1.0	<b>1.4</b>
compounds below 2L	Concentrations in (µg/L)			
1,1,1-Trichloroethane	200	1,500	19	37
1,1,2-Trichloroethane	NE	44	<1.0	2.0
1,1-Dichloroethane	6	65	4.2	2.0
Chloroform	70	7.3	<1.0	2.2

Notes:

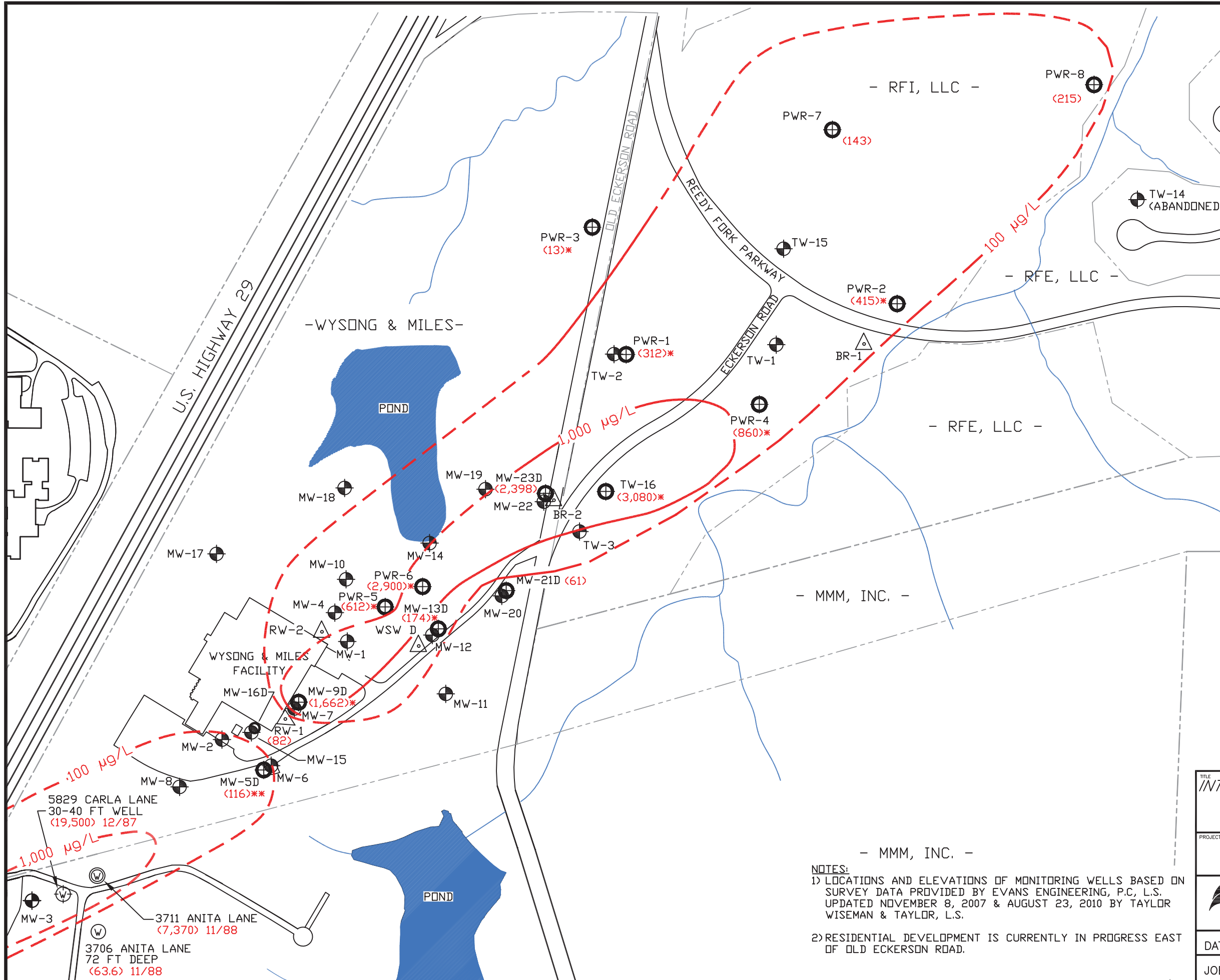
1. North Carolina 2L groundwater standards
2. NC Inactive Hazardous Sites Branch (IHSB) groundwater screening level for residential vapor intrusion (1/25/2010)

NE = Not Established

**Bold** values exceed NC2L groundwater standards.

**Highlighted and boxed** values exceed IHSB screening levels for vapor intrusion.

Only compounds detected are listed.



**LEGEND:**

- SHALLOW MONITORING WELL
- RECOVERY WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- WATER SUPPLY WELL
- (TW-14) (ABANDONED)
- (180) TOTAL CVOC CONCENTRATIONS (µg/L)
- PROPERTY BOUNDARY
- RFE, LLC - PROPERTY OWNER

**SAMPLING NOTES:**

TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS (CVOC) CONCENTRATIONS IN µg/L.

1,4-DIOXANE NOT INCLUDED AS IT IS NOT A CVOC

PUMP & TREAT SYSTEM INACTIVE

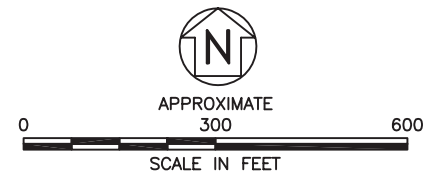
DATA DISPLAYED FOR NEW MONITORING WELLS:

PWR-7 & PWR-8 CORRESPONDS TO AUG 2010 SAMPLING

\* JUNE 2008 DATA

\*\* JUNE 2006 DATA

ALL OTHER DATA OCTOBER 2008



TITLE  
*INTERPRETED CVOC ISOPLETHS (µg/L)  
INTERMEDIATE GROUNDWATER  
AUGUST 2010*

PROJECT  
*WYSONG & MILES  
GREENSBORO, NORTH CAROLINA*

**Hart & Hickman**  
A PROFESSIONAL CORPORATION

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License # C-1269

DATE: 09/14/10	REVISION NO. 0
JOB NO. WYM-003	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 & AUGUST 23, 2010 BY TAYLOR WISEMAN & TAYLOR, L.S.

2) RESIDENTIAL DEVELOPMENT IS CURRENTLY IN PROGRESS EAST OF OLD ECKERSON ROAD.

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**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

## **Appendix C**

### **Soil Boring Logs and Well Construction Records**



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

**WELL LOG**  
 Well No. **MW-1/SB-1**  
 Page: **1 of 1**

Drilling Start Date: <b>11/19/2019</b>	Boring Depth (ft): <b>30.0</b>	Well Depth (ft): <b>30.0</b>
Drilling End Date: <b>11/21/2019</b>	Boring Diameter (in): <b>8.50</b>	Well Diameter (in): <b>2.0</b>
Drilling Company: <b>IET</b>	Sampling Method(s): <b>Grab</b>	Screen Slot (in): <b>0.010</b>
Drilling Method: <b>HSA/Air Rotary</b>	DTW During Drilling (ft): <b>N/A</b>	Riser Material: <b>Sch 40 PVC</b>
Drilling Equipment: <b>AMS Power Probe</b>	DTW After Drilling (ft): <b>23.3</b>	Screen Material: <b>Sch 40 PVC Slotted</b>
Driller: <b>M. Tynan</b>	Top of Casing Elev. (ft): <b>N/A</b>	Seal Material(s): <b>Bent.-Cement Grout/Bent. Chips</b>
Logged By: <b>C. Goodwin</b>	Location (X,Y): <b>N/A</b>	Filter Type: <b>Sand</b>

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); soft, moist, brown	9.4		0
								(1') Elastic SILT (MH); trace fine-medium sand, medium stiff, moist, brown, orange	2.3		
								(4') SILT (ML); stiff, moist, light brown	2.5		5
								(6') SILT (ML); hard, moist, reddish-brown	1.9		
									1.5		10
									1.9		15
									2.3		
									1.5		20
								(16.5') SILT (ML); trace fine-coarse gravel, few fine-medium sand, hard, pale brown, hollow stem auger refusal		SB-1 (15-16.5)	25
											30
								(30') Boring terminated			35

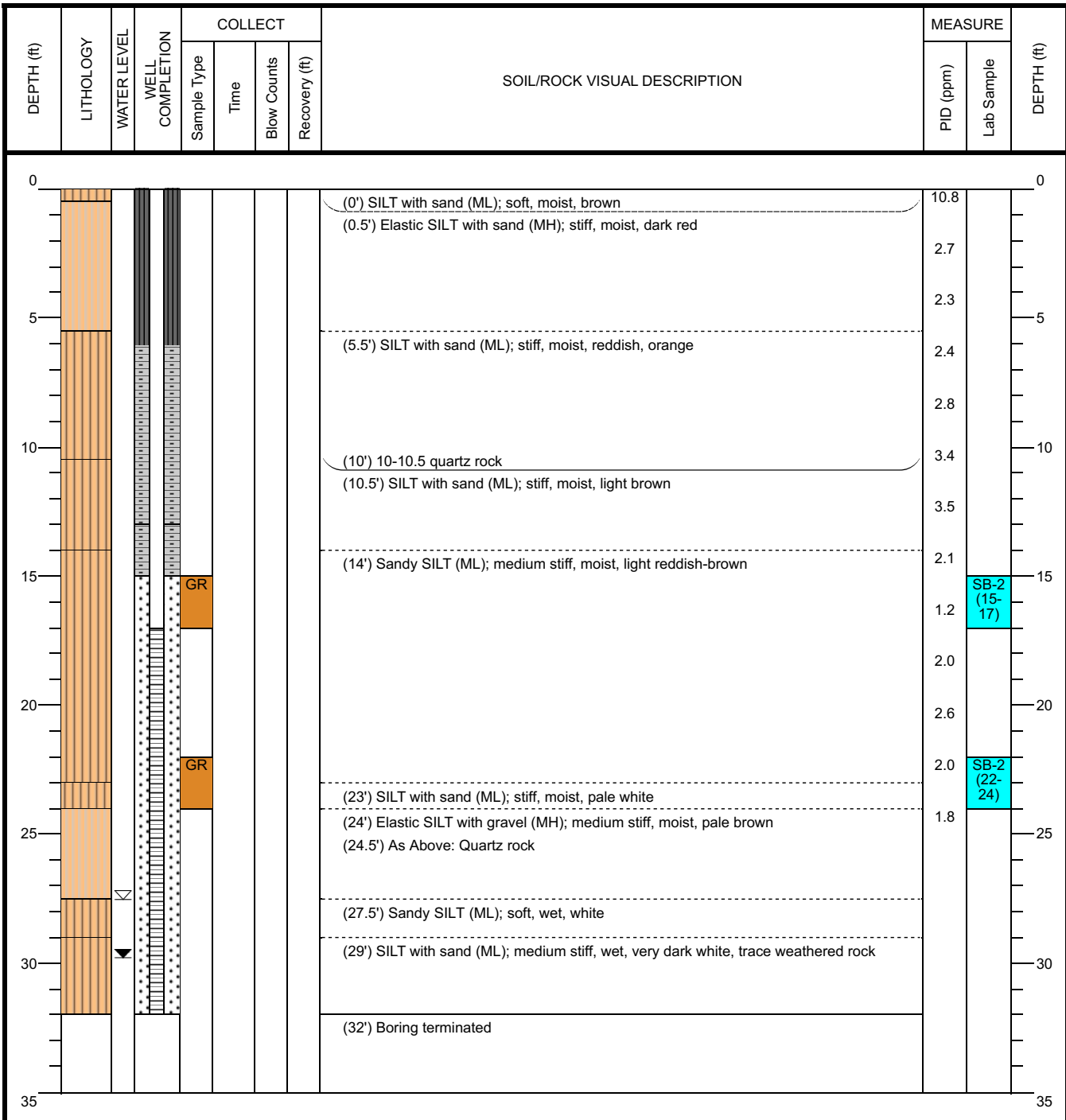
NOTES: Well completed with flush mount manhole cover.



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

**WELL LOG**  
 Well No. **MW-2/SB-2**  
 Page: **1 of 1**

Drilling Start Date: <b>11/19/2019</b>	Boring Depth (ft): <b>32.0</b>	Well Depth (ft): <b>32.0</b>
Drilling End Date: <b>11/21/2019</b>	Boring Diameter (in): <b>8.50</b>	Well Diameter (in): <b>2.0</b>
Drilling Company: <b>IET</b>	Sampling Method(s): <b>Grab</b>	Screen Slot (in): <b>0.010</b>
Drilling Method: <b>HSA</b>	DTW During Drilling (ft): <b>27.5</b>	Riser Material: <b>Sch 40 PVC</b>
Drilling Equipment: <b>AMS Power Probe</b>	DTW After Drilling (ft): <b>29.23</b>	Screen Material: <b>Sch 40 PVC Slotted</b>
Driller: <b>M. Tynan</b>	Top of Casing Elev. (ft): <b>N/A</b>	Seal Material(s): <b>Bent.-Cement Grout/Bent. Chips</b>
Logged By: <b>C. Goodwin</b>	Location (X,Y): <b>N/A</b>	Filter Type: <b>Sand</b>



NOTES: Well completed with metal stickup cover.





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

**WELL LOG**  
 Well No. **MW-3/SB-3**  
 Page: **1 of 1**

Drilling Start Date: <b>11/20/2019</b>	Boring Depth (ft): <b>31.0</b>	Well Depth (ft): <b>31.0</b>
Drilling End Date: <b>11/21/2019</b>	Boring Diameter (in): <b>8.50</b>	Well Diameter (in): <b>2.0</b>
Drilling Company: <b>IET</b>	Sampling Method(s): <b>Grab</b>	Screen Slot (in): <b>0.010</b>
Drilling Method: <b>HSA</b>	DTW During Drilling (ft): <b>N/A</b>	Riser Material: <b>Sch 40 PVC</b>
Drilling Equipment: <b>AMS Power Probe</b>	DTW After Drilling (ft): <b>N/A</b>	Screen Material: <b>Sch 40 PVC Slotted</b>
Driller: <b>M. Tynan</b>	Top of Casing Elev. (ft): <b>N/A</b>	Seal Material(s): <b>Bent.-Cement Grout/Bent. Chips</b>
Logged By: <b>C. Goodwin</b>	Location (X,Y): <b>N/A</b>	Filter Type: <b>Sand</b>

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Sandy lean CLAY (CL); medium plasticity, soft, moist, reddish-brown	1.3		0
								(1') Elastic SILT (MH); medium stiff, moist, red	1.7		
5								(5.5') Sandy SILT (ML); medium stiff, moist, reddish, orange	2.6		5
								(8') Sandy SILT (ML); medium stiff, moist, orange, with black flecking	3.4		
10								(15') Sandy SILT (ML); medium stiff, moist, orange, with black flecking, micaceous	3.7		10
							GR	(19') Sandy lean CLAY (CL); medium plasticity, stiff, moist, red, micaceous	2.5		15
15							GR	(24') Elastic SILT with sand (MH); stiff, moist, reddish-brown, micaceous	0.6	SB-3 (15-17)	
								(29') As Above: trace weathered rock	1.0	SB-3 (17-19)	
20								(31') Boring terminated	0.2		20
25									0.8		25
30									1.1		30
35									1.5		35

NOTES: Well completed with metal stickup cover.



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

**WELL LOG**  
 Well No. **MW-4/SB-4**  
 Page: **1 of 1**

Drilling Start Date: <b>11/20/2019</b>	Boring Depth (ft): <b>31.0</b>	Well Depth (ft): <b>31.0</b>
Drilling End Date: <b>11/21/2019</b>	Boring Diameter (in): <b>8.50</b>	Well Diameter (in): <b>2.0</b>
Drilling Company: <b>IET</b>	Sampling Method(s): <b>Grab</b>	Screen Slot (in): <b>0.010</b>
Drilling Method: <b>HSA</b>	DTW During Drilling (ft): <b>30.0</b>	Riser Material: <b>Sch 40 PVC</b>
Drilling Equipment: <b>AMS Power Probe</b>	DTW After Drilling (ft): <b>29.05</b>	Screen Material: <b>Sch 40 PVC Slotted</b>
Driller: <b>M. Tynan</b>	Top of Casing Elev. (ft): <b>N/A</b>	Seal Material(s): <b>Bent.-Cement Grout/Bent. Chips</b>
Logged By: <b>C. Goodwin</b>	Location (X,Y): <b>N/A</b>	Filter Type: <b>Sand</b>

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); stiff, moist, red, micaceous			0
5								(5') SILT with sand (ML); soft, moist, orange, micaceous			5
10								(10') SILT with sand (ML); soft, moist, gray, orange, micaceous			10
15								(11') SILT with sand (ML); soft, moist, light gray, micaceous			15
15										SB-4 (15-17)	15
20											20
20										SB-4 (19-21)	20
25								(22') SILT with sand (ML); soft, moist, light brown, gray, micaceous			25
25								(25') SILT with sand (ML); medium stiff, moist, gray			25
26								(26') SILT with sand (ML); soft, moist, light gray			26
30								(28.5') BEDROCK: hollow stem auger refusal			30
31								(31') Boring terminated			31

NOTES: Well completed with metal stickup cover.



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

**WELL LOG**  
 Well No. **MW-5/SB-5**  
 Page: **1 of 1**

Drilling Start Date: <b>11/21/2019</b>	Boring Depth (ft): <b>30.0</b>	Well Depth (ft): <b>30.0</b>
Drilling End Date: <b>11/21/2019</b>	Boring Diameter (in): <b>8.50</b>	Well Diameter (in): <b>2.0</b>
Drilling Company: <b>IET</b>	Sampling Method(s): <b>Grab</b>	Screen Slot (in): <b>0.010</b>
Drilling Method: <b>HSA</b>	DTW During Drilling (ft): <b>N/A</b>	Riser Material: <b>Sch 40 PVC</b>
Drilling Equipment: <b>AMS Power Probe</b>	DTW After Drilling (ft): <b>N/A</b>	Screen Material: <b>Sch 40 PVC Slotted</b>
Driller: <b>M. Tynan</b>	Top of Casing Elev. (ft): <b>N/A</b>	Seal Material(s): <b>Bent.-Cement Grout/Bent. Chips</b>
Logged By: <b>C. Goodwin</b>	Location (X,Y): <b>N/A</b>	Filter Type: <b>Sand</b>

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); medium stiff, moist, reddish-brown	2.4		0
								(0.5') Elastic SILT (MH); stiff, moist, red, micaceous	1.1		
								(3') SILT with sand (ML); stiff, moist, red, orange, micaceous	1.3		5
5								(5.5') SILT (ML); medium stiff, moist, orange	0.8		
								(8.5') SILT with sand (ML); soft, moist, yellow	1.0		10
10								(11') SILT with sand (ML); soft, moist, white	1.1		
								(14') Elastic SILT (MH); medium stiff, moist, red	0.6		15
15			GR					(15') SILT with sand (ML); soft, moist, white	0.3	SB-5 (15-17)	
								(21') SILT with sand (ML); soft, moist, dark yellowish-white	0.8		20
20			GR					(22') As Above: possible organic material	0.7	SB-5 (19-21)	
								(24') SILT with sand (ML); soft, moist, brown, black flecking	1.0		25
25									1.2		30
30								(30') Boring terminated	1.0		35

NOTES: Well completed with flush mount manhole cover.

WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

Mike Tynan

Well Contractor Name

2725-A

NC Well Contractor Certification Number

IET

Company Name

2. Well Construction Permit #: Guilford County #014-19-MW5-RW0

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural, Geothermal (Heating/Cooling Supply), Industrial/Commercial, Irrigation, Municipal/Public, Residential Water Supply (single), Residential Water Supply (shared)

Non-Water Supply Well:

- Monitoring, Recovery

Injection Well:

- Aquifer Recharge, Aquifer Storage and Recovery, Aquifer Test, Experimental Technology, Geothermal (Closed Loop), Geothermal (Heating/Cooling Return), Groundwater Remediation, Salinity Barrier, Stormwater Drainage, Subsidence Control, Tracer, Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/21/19 Well ID# MW-1

5a. Well Location:

NCDOT

Facility/Owner Name

Facility ID# (if applicable)

3600 Reedy Fork Pkwy, Greensboro 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36 10 22.195 N 79 42 37.051 W

6. Is(are) the well(s): [X] Permanent or [ ] Temporary

7. Is this a repair to an existing well: [ ] Yes or [X] No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled:

9. Total well depth below land surface: 30 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: ~25 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.5 (in.)

12. Well construction method: auger & air rotary

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use Only:

14. WATER ZONES

Table with columns FROM, TO, DESCRIPTION. Row 1: 25 ft. to 30 ft. pwr.

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL.

16. INNER CASING OR TUBING (geothermal closed-loop)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row 1: 0 ft. to 15 ft. 2 in. Sch40 PVC.

17. SCREEN

Table with columns FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row 1: 15 ft. to 30 ft. 2 in. 0.010 Sch40 PVC.

18. GROUT

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Row 1: 0 ft. to 6 ft. concrete pour.

19. SAND/GRAVEL PACK (if applicable)

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row 1: 13 ft. to 30 ft. #2 silica sand pour through augers.

20. DRILLING LOG (attach additional sheets if necessary)

Table with columns FROM, TO, DESCRIPTION (color, hardness, soil/rock type, grain size, etc.). Row 1: ft. to ft. See Report.

21. REMARKS

Well completed at surface with manhole & 2'x2' concrete pad. (lock & tag)

22. Certification:

Signature of Certified Well Contractor: Mike Tynan

Date: 11/22/19

Signature of Certified Well Contractor

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

Mike Tynan

Well Contractor Name

2725-A

NC Well Contractor Certification Number

IET

Company Name

2. Well Construction Permit #: Guilford County #014-19-MW5-RW0

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural, Geothermal (Heating/Cooling Supply), Industrial/Commercial, Irrigation, Municipal/Public, Residential Water Supply (single), Residential Water Supply (shared)

Non-Water Supply Well:

- Monitoring, Recovery

Injection Well:

- Aquifer Recharge, Aquifer Storage and Recovery, Aquifer Test, Experimental Technology, Geothermal (Closed Loop), Geothermal (Heating/Cooling Return), Groundwater Remediation, Salinity Barrier, Stormwater Drainage, Subsidence Control, Tracer, Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/21/19 Well ID# MW-2

5a. Well Location:

NCDOT

Facility/Owner Name

Facility ID# (if applicable)

3600 Reedy Fork Pkwy, Greensboro 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36 10 20.219 N 79 42 35.039 W

6. Is(are) the well(s): [X] Permanent or [ ] Temporary

7. Is this a repair to an existing well: [ ] Yes or [X] No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled:

9. Total well depth below land surface: 32 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: ~28 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.5 (in.)

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use Only:

14. WATER ZONES

Table with 3 columns: FROM, TO, DESCRIPTION. Row 1: 28 ft. to 32 ft. saprolite.

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

Table with 5 columns: FROM, TO, DIAMETER, THICKNESS, MATERIAL.

16. INNER CASING OR TUBING (geothermal closed-loop)

Table with 5 columns: FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row 1: 0 ft. to 17 ft. 2 in. Sch40 PVC.

17. SCREEN

Table with 6 columns: FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row 1: 17 ft. to 32 ft. 2 in. 0.010 Sch40 PVC.

18. GROUT

Table with 4 columns: FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Rows: 0 ft. to 6 ft. concrete pour; 6 ft. to 15 ft. bentonite pour.

19. SAND/GRAVEL PACK (if applicable)

Table with 4 columns: FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row 1: 15 ft. to 32 ft. #2 silica sand pour through augers.

20. DRILLING LOG (attach additional sheets if necessary)

Table with 3 columns: FROM, TO, DESCRIPTION. Row 1: ft. to ft. See Report.

21. REMARKS

Well completed at surface with aboveground well cover & 2'x2' concrete pad. (lock & tag)

22. Certification:

Signature of Certified Well Contractor: Mike Tynan

Date: 11/22/19

Signature of Certified Well Contractor

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

Mike Tynan

Well Contractor Name

2725-A

NC Well Contractor Certification Number

IET

Company Name

2. Well Construction Permit #: Guilford County #014-19-MW5-RW0

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural, Geothermal (Heating/Cooling Supply), Industrial/Commercial, Irrigation, Municipal/Public, Residential Water Supply (single), Residential Water Supply (shared)

Non-Water Supply Well:

- Monitoring, Recovery

Injection Well:

- Aquifer Recharge, Aquifer Storage and Recovery, Aquifer Test, Experimental Technology, Geothermal (Closed Loop), Geothermal (Heating/Cooling Return), Groundwater Remediation, Salinity Barrier, Stormwater Drainage, Subsidence Control, Tracer, Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/21/19 Well ID# MW-3

5a. Well Location:

NCDOT

Facility/Owner Name

Facility ID# (if applicable)

3600 Reedy Fork Pkwy, Greensboro 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36 10 18.919 N 79 42 33.498 W

6. Is(are) the well(s): [X] Permanent or [ ] Temporary

7. Is this a repair to an existing well: [ ] Yes or [X] No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled:

9. Total well depth below land surface: 31 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: none (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.5 (in.)

12. Well construction method: auger (i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use Only:

14. WATER ZONES

Table with columns FROM, TO, DESCRIPTION. Rows for water zones.

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL.

16. INNER CASING OR TUBING (geothermal closed-loop)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row for inner casing.

17. SCREEN

Table with columns FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row for screen.

18. GROUT

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Rows for grout.

19. SAND/GRAVEL PACK (if applicable)

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row for sand/gravel pack.

20. DRILLING LOG (attach additional sheets if necessary)

Table with columns FROM, TO, DESCRIPTION (color, hardness, soil/rock type, grain size, etc.). Row for drilling log.

21. REMARKS

Well completed at surface with aboveground well cover & 2'x2' concrete pad. (lock & tag)

22. Certification:

Signature of Certified Well Contractor: Mike Tynan

Date: 11/22/19

Signature of Certified Well Contractor

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

Mike Tynan

Well Contractor Name

2725-A

NC Well Contractor Certification Number

IET

Company Name

2. Well Construction Permit #: Guilford County #014-19-MW5-RW0

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural, Geothermal (Heating/Cooling Supply), Industrial/Commercial, Irrigation, Municipal/Public, Residential Water Supply (single), Residential Water Supply (shared)

Non-Water Supply Well:

- Monitoring, Recovery

Injection Well:

- Aquifer Recharge, Aquifer Storage and Recovery, Aquifer Test, Experimental Technology, Geothermal (Closed Loop), Geothermal (Heating/Cooling Return), Groundwater Remediation, Salinity Barrier, Stormwater Drainage, Subsidence Control, Tracer, Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/21/19 Well ID# MW-4

5a. Well Location:

NCDOT

Facility/Owner Name

Facility ID# (if applicable)

3600 Reedy Fork Pkwy, Greensboro 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36 10 19.171 N 79 42 39.118 W

6. Is(are) the well(s): [X] Permanent or [ ] Temporary

7. Is this a repair to an existing well: [ ] Yes or [X] No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled:

9. Total well depth below land surface: 31 (ft.)

10. Static water level below top of casing: 28 (ft.)

11. Borehole diameter: 8.5 (in.)

12. Well construction method: auger & air rotary

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use Only:

14. WATER ZONES

Table with columns FROM, TO, DESCRIPTION. Row 1: 28 ft. to 31 ft. pwr.

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL.

16. INNER CASING OR TUBING (geothermal closed-loop)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row 1: 0 ft. to 16 ft. 2 in. Sch40 PVC.

17. SCREEN

Table with columns FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row 1: 16 ft. to 31 ft. 2 in. 0.010 Sch40 PVC.

18. GROUT

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Row 1: 0 ft. to 6 ft. concrete pour.

19. SAND/GRAVEL PACK (if applicable)

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row 1: 14 ft. to 31 ft. #2 silica sand pour through augers.

20. DRILLING LOG (attach additional sheets if necessary)

Table with columns FROM, TO, DESCRIPTION. Row 1: ft. to ft. See Report.

21. REMARKS

Well completed at surface with aboveground well cover & 2'x2' concrete pad. (lock & tag)

22. Certification:

Signature of Mike Tynan

Date 11/22/19

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

Mike Tynan

Well Contractor Name

2725-A

NC Well Contractor Certification Number

IET

Company Name

2. Well Construction Permit #: Guilford County #014-19-MW5-RW0

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural, Geothermal (Heating/Cooling Supply), Industrial/Commercial, Irrigation, Municipal/Public, Residential Water Supply (single), Residential Water Supply (shared)

Non-Water Supply Well:

- Monitoring, Recovery

Injection Well:

- Aquifer Recharge, Aquifer Storage and Recovery, Aquifer Test, Experimental Technology, Geothermal (Closed Loop), Geothermal (Heating/Cooling Return), Groundwater Remediation, Salinity Barrier, Stormwater Drainage, Subsidence Control, Tracer, Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/21/19 Well ID# MW-5

5a. Well Location:

NCDOT

Facility/Owner Name

Facility ID# (if applicable)

3600 Reedy Fork Pkwy, Greensboro 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36 10 17.764 N 79 42 37.422 W

6. Is(are) the well(s): [X] Permanent or [ ] Temporary

7. Is this a repair to an existing well: [ ] Yes or [X] No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled:

9. Total well depth below land surface: 30 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: none (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.5 (in.)

12. Well construction method: auger (i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use Only:

14. WATER ZONES

Table with columns FROM, TO, DESCRIPTION. Rows for water zones.

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL.

16. INNER CASING OR TUBING (geothermal closed-loop)

Table with columns FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row for inner casing.

17. SCREEN

Table with columns FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row for screen.

18. GROUT

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Rows for grout.

19. SAND/GRAVEL PACK (if applicable)

Table with columns FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row for sand/gravel pack.

20. DRILLING LOG (attach additional sheets if necessary)

Table with columns FROM, TO, DESCRIPTION (color, hardness, soil/rock type, grain size, etc.). Row for drilling log.

21. REMARKS

Well completed at surface with manhole & 2'x2' concrete pad. (lock & tag)

22. Certification:

Signature of Mike Tynan

Signature of Certified Well Contractor

11/22/19

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.



**Appendix D**  
**Laboratory Analytical Reports**

January 14, 2020

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

RE: Project: ROW-603  
Pace Project No.: 92454623

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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



## 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.: 92454623

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### **Pace Analytical Services National**

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Mold Certification #: LAB0152

Texas Certification #: T 104704245-17-14

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 9980939910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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### **Pace Analytical Services Charlotte**

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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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92454623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92454623001	SB-1 (15-16.5)	Solid	11/19/19 12:35	11/20/19 10:26
92454623002	SB-2 (15-17)	Solid	11/19/19 15:10	11/20/19 10:26
92454623003	SB-2 (22-24)	Solid	11/19/19 15:45	11/20/19 10:26
92454623004	SB-3 (15-17)	Solid	11/20/19 09:20	11/20/19 10:26
92454623005	SB-3 (17-19)	Solid	11/20/19 10:05	11/20/19 10:26
92454623006	Trip Blank	Water	11/20/19 00:00	11/20/19 10:26

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: ROW-603  
Pace Project No.: 92454623

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92454623001	SB-1 (15-16.5)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454623002	SB-2 (15-17)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454623003	SB-2 (22-24)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KDW	1	PAN
		EPA 7199	DGR	1	PAN
92454623004	SB-3 (15-17)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454623005	SB-3 (17-19)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KDW	1	PAN
92454623006	Trip Blank	EPA 7199	DGR	1	PAN
		EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-1 (15-16.5)**      **Lab ID: 92454623001**      Collected: 11/19/19 12:35      Received: 11/20/19 10:26      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	1.0	0.52	1	11/21/19 16:35	11/23/19 01:32	7440-38-2	
Barium	<b>355</b>	mg/kg	0.52	0.26	1	11/21/19 16:35	11/23/19 01:32	7440-39-3	
Cadmium	ND	mg/kg	0.10	0.052	1	11/21/19 16:35	11/23/19 01:32	7440-43-9	
Chromium	<b>18.6</b>	mg/kg	0.52	0.26	1	11/21/19 16:35	11/23/19 01:32	7440-47-3	
Lead	<b>1.2</b>	mg/kg	0.52	0.26	1	11/21/19 16:35	11/23/19 01:32	7439-92-1	
Selenium	<b>1.0J</b>	mg/kg	1.0	0.52	1	11/21/19 16:35	11/23/19 01:32	7782-49-2	
Silver	ND	mg/kg	0.52	0.26	1	11/21/19 16:35	11/23/19 01:32	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.0024J</b>	mg/kg	0.0025	0.0012	1	11/21/19 11:57	11/22/19 12:04	7439-97-6	B,BC
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.35	0.089	1	11/23/19 13:40	11/25/19 20:29	83-32-9	
Acenaphthylene	ND	mg/kg	0.35	0.082	1	11/23/19 13:40	11/25/19 20:29	208-96-8	
Aniline	ND	mg/kg	0.35	0.078	1	11/23/19 13:40	11/25/19 20:29	62-53-3	
Anthracene	ND	mg/kg	0.35	0.090	1	11/23/19 13:40	11/25/19 20:29	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.35	0.11	1	11/23/19 13:40	11/25/19 20:29	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.35	0.15	1	11/23/19 13:40	11/25/19 20:29	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.35	0.14	1	11/23/19 13:40	11/25/19 20:29	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.35	0.14	1	11/23/19 13:40	11/25/19 20:29	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.35	0.15	1	11/23/19 13:40	11/25/19 20:29	207-08-9	
Benzoic Acid	ND	mg/kg	1.7	0.37	1	11/23/19 13:40	11/25/19 20:29	65-85-0	
Benzyl alcohol	ND	mg/kg	0.69	0.18	1	11/23/19 13:40	11/25/19 20:29	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.35	0.091	1	11/23/19 13:40	11/25/19 20:29	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.35	0.092	1	11/23/19 13:40	11/25/19 20:29	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.69	0.21	1	11/23/19 13:40	11/25/19 20:29	59-50-7	
4-Chloroaniline	ND	mg/kg	1.7	0.21	1	11/23/19 13:40	11/25/19 20:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.35	0.093	1	11/23/19 13:40	11/25/19 20:29	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.35	0.074	1	11/23/19 13:40	11/25/19 20:29	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.35	0.077	1	11/23/19 13:40	11/25/19 20:29	91-58-7	
2-Chlorophenol	ND	mg/kg	0.35	0.081	1	11/23/19 13:40	11/25/19 20:29	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.35	0.090	1	11/23/19 13:40	11/25/19 20:29	7005-72-3	
Chrysene	ND	mg/kg	0.35	0.10	1	11/23/19 13:40	11/25/19 20:29	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.35	0.14	1	11/23/19 13:40	11/25/19 20:29	53-70-3	
Dibenzofuran	ND	mg/kg	0.35	0.087	1	11/23/19 13:40	11/25/19 20:29	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.35	0.075	1	11/23/19 13:40	11/25/19 20:29	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.35	0.078	1	11/23/19 13:40	11/25/19 20:29	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.35	0.076	1	11/23/19 13:40	11/25/19 20:29	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.7	0.24	1	11/23/19 13:40	11/25/19 20:29	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.35	0.11	1	11/23/19 13:40	11/25/19 20:29	120-83-2	
Diethylphthalate	ND	mg/kg	0.35	0.075	1	11/23/19 13:40	11/25/19 20:29	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.35	0.086	1	11/23/19 13:40	11/25/19 20:29	105-67-9	
Dimethylphthalate	ND	mg/kg	0.35	0.078	1	11/23/19 13:40	11/25/19 20:29	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.35	0.086	1	11/23/19 13:40	11/25/19 20:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.69	0.56	1	11/23/19 13:40	11/25/19 20:29	534-52-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92454623

**Sample: SB-1 (15-16.5)**      **Lab ID: 92454623001**      Collected: 11/19/19 12:35      Received: 11/20/19 10:26      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>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	mg/kg	1.7	1.1	1	11/23/19 13:40	11/25/19 20:29	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.35	0.092	1	11/23/19 13:40	11/25/19 20:29	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.35	0.091	1	11/23/19 13:40	11/25/19 20:29	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.35	0.20	1	11/23/19 13:40	11/25/19 20:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.35	0.11	1	11/23/19 13:40	11/25/19 20:29	117-81-7	
Fluoranthene	ND	mg/kg	0.35	0.10	1	11/23/19 13:40	11/25/19 20:29	206-44-0	
Fluorene	ND	mg/kg	0.35	0.093	1	11/23/19 13:40	11/25/19 20:29	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.35	0.084	1	11/23/19 13:40	11/25/19 20:29	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.35	0.088	1	11/23/19 13:40	11/25/19 20:29	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.35	0.14	1	11/23/19 13:40	11/25/19 20:29	77-47-4	
Hexachloroethane	ND	mg/kg	0.35	0.079	1	11/23/19 13:40	11/25/19 20:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.35	0.16	1	11/23/19 13:40	11/25/19 20:29	193-39-5	
Isophorone	ND	mg/kg	0.35	0.075	1	11/23/19 13:40	11/25/19 20:29	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.35	0.092	1	11/23/19 13:40	11/25/19 20:29	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.35	0.088	1	11/23/19 13:40	11/25/19 20:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.35	0.077	1	11/23/19 13:40	11/25/19 20:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.35	0.087	1	11/23/19 13:40	11/25/19 20:29	15831-10-4	
Naphthalene	ND	mg/kg	0.35	0.083	1	11/23/19 13:40	11/25/19 20:29	91-20-3	
2-Nitroaniline	ND	mg/kg	1.7	0.17	1	11/23/19 13:40	11/25/19 20:29	88-74-4	
3-Nitroaniline	ND	mg/kg	1.7	0.18	1	11/23/19 13:40	11/25/19 20:29	99-09-2	
4-Nitroaniline	ND	mg/kg	0.69	0.17	1	11/23/19 13:40	11/25/19 20:29	100-01-6	
Nitrobenzene	ND	mg/kg	0.35	0.083	1	11/23/19 13:40	11/25/19 20:29	98-95-3	
2-Nitrophenol	ND	mg/kg	0.35	0.11	1	11/23/19 13:40	11/25/19 20:29	88-75-5	
4-Nitrophenol	ND	mg/kg	1.7	0.55	1	11/23/19 13:40	11/25/19 20:29	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.35	0.098	1	11/23/19 13:40	11/25/19 20:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.35	0.097	1	11/23/19 13:40	11/25/19 20:29	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.35	0.089	1	11/23/19 13:40	11/25/19 20:29	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.35	0.096	1	11/23/19 13:40	11/25/19 20:29	108-60-1	
Pentachlorophenol	ND	mg/kg	1.7	0.16	1	11/23/19 13:40	11/25/19 20:29	87-86-5	
Phenanthrene	ND	mg/kg	0.35	0.087	1	11/23/19 13:40	11/25/19 20:29	85-01-8	
Phenol	ND	mg/kg	0.35	0.083	1	11/23/19 13:40	11/25/19 20:29	108-95-2	
Pyrene	ND	mg/kg	0.35	0.096	1	11/23/19 13:40	11/25/19 20:29	129-00-0	
Pyridine	ND	mg/kg	0.35	0.088	1	11/23/19 13:40	11/25/19 20:29	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.35	0.080	1	11/23/19 13:40	11/25/19 20:29	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.35	0.090	1	11/23/19 13:40	11/25/19 20:29	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.35	0.087	1	11/23/19 13:40	11/25/19 20:29	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	38	%	23-110		1	11/23/19 13:40	11/25/19 20:29	4165-60-0	
2-Fluorobiphenyl (S)	40	%	30-110		1	11/23/19 13:40	11/25/19 20:29	321-60-8	
Terphenyl-d14 (S)	58	%	28-110		1	11/23/19 13:40	11/25/19 20:29	1718-51-0	
Phenol-d6 (S)	38	%	22-110		1	11/23/19 13:40	11/25/19 20:29	13127-88-3	
2-Fluorophenol (S)	40	%	13-110		1	11/23/19 13:40	11/25/19 20:29	367-12-4	
2,4,6-Tribromophenol (S)	39	%	27-110		1	11/23/19 13:40	11/25/19 20:29	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-1 (15-16.5)**      **Lab ID: 92454623001**      Collected: 11/19/19 12:35      Received: 11/20/19 10:26      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	ND	mg/kg	0.087	0.0082	1	11/24/19 13:48	11/24/19 20:19	67-64-1	
Benzene	ND	mg/kg	0.0043	0.00078	1	11/24/19 13:48	11/24/19 20:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0043	0.0012	1	11/24/19 13:48	11/24/19 20:19	108-86-1	
Bromochloromethane	ND	mg/kg	0.0043	0.0011	1	11/24/19 13:48	11/24/19 20:19	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0043	0.00085	1	11/24/19 13:48	11/24/19 20:19	75-27-4	
Bromoform	ND	mg/kg	0.0043	0.0021	1	11/24/19 13:48	11/24/19 20:19	75-25-2	
Bromomethane	ND	mg/kg	0.0087	0.0020	1	11/24/19 13:48	11/24/19 20:19	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.087	0.010	1	11/24/19 13:48	11/24/19 20:19	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0043	0.0024	1	11/24/19 13:48	11/24/19 20:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0043	0.0018	1	11/24/19 13:48	11/24/19 20:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0043	0.00083	1	11/24/19 13:48	11/24/19 20:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.0043	0.00084	1	11/24/19 13:48	11/24/19 20:19	108-90-7	
Chloroethane	ND	mg/kg	0.0087	0.0018	1	11/24/19 13:48	11/24/19 20:19	75-00-3	
Chloroform	ND	mg/kg	0.0043	0.00092	1	11/24/19 13:48	11/24/19 20:19	67-66-3	
Chloromethane	ND	mg/kg	0.0087	0.0028	1	11/24/19 13:48	11/24/19 20:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0043	0.0013	1	11/24/19 13:48	11/24/19 20:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0043	0.0013	1	11/24/19 13:48	11/24/19 20:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0043	0.0022	1	11/24/19 13:48	11/24/19 20:19	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0043	0.0022	1	11/24/19 13:48	11/24/19 20:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0043	0.00097	1	11/24/19 13:48	11/24/19 20:19	106-93-4	
Dibromomethane	ND	mg/kg	0.0043	0.0013	1	11/24/19 13:48	11/24/19 20:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0087	0.0036	1	11/24/19 13:48	11/24/19 20:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0043	0.00064	1	11/24/19 13:48	11/24/19 20:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0043	0.00087	1	11/24/19 13:48	11/24/19 20:19	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0043	0.0010	1	11/24/19 13:48	11/24/19 20:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0043	0.00075	1	11/24/19 13:48	11/24/19 20:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0043	0.00085	1	11/24/19 13:48	11/24/19 20:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0043	0.0016	1	11/24/19 13:48	11/24/19 20:19	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0043	0.0016	1	11/24/19 13:48	11/24/19 20:19	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0043	0.00043	1	11/24/19 13:48	11/24/19 20:19	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0043	0.0018	1	11/24/19 13:48	11/24/19 20:19	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0043	0.0020	1	11/24/19 13:48	11/24/19 20:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0043	0.00076	1	11/24/19 13:48	11/24/19 20:19	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0043	0.0025	1	11/24/19 13:48	11/24/19 20:19	108-20-3	
Ethylbenzene	ND	mg/kg	0.0043	0.00092	1	11/24/19 13:48	11/24/19 20:19	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0043	0.0021	1	11/24/19 13:48	11/24/19 20:19	87-68-3	
2-Hexanone	ND	mg/kg	0.043	0.0045	1	11/24/19 13:48	11/24/19 20:19	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0043	0.0013	1	11/24/19 13:48	11/24/19 20:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0043	0.0021	1	11/24/19 13:48	11/24/19 20:19	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	0.0051	1	11/24/19 13:48	11/24/19 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.043	0.0032	1	11/24/19 13:48	11/24/19 20:19	108-10-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-1 (15-16.5)**      **Lab ID: 92454623001**      Collected: 11/19/19 12:35      Received: 11/20/19 10:26      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	0.0043	0.0025	1	11/24/19 13:48	11/24/19 20:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0043	0.0037	1	11/24/19 13:48	11/24/19 20:19	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0043	0.0014	1	11/24/19 13:48	11/24/19 20:19	103-65-1	
Styrene	ND	mg/kg	0.0043	0.0013	1	11/24/19 13:48	11/24/19 20:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0043	0.0011	1	11/24/19 13:48	11/24/19 20:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0043	0.0014	1	11/24/19 13:48	11/24/19 20:19	127-18-4	
Toluene	ND	mg/kg	0.0043	0.0014	1	11/24/19 13:48	11/24/19 20:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0043	0.0031	1	11/24/19 13:48	11/24/19 20:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0043	0.0023	1	11/24/19 13:48	11/24/19 20:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0043	0.00075	1	11/24/19 13:48	11/24/19 20:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0043	0.00098	1	11/24/19 13:48	11/24/19 20:19	79-00-5	
Trichloroethene	ND	mg/kg	0.0043	0.0011	1	11/24/19 13:48	11/24/19 20:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0043	0.0010	1	11/24/19 13:48	11/24/19 20:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0043	0.0015	1	11/24/19 13:48	11/24/19 20:19	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0043	0.0017	1	11/24/19 13:48	11/24/19 20:19	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0043	0.0014	1	11/24/19 13:48	11/24/19 20:19	108-67-8	
Vinyl acetate	ND	mg/kg	0.043	0.014	1	11/24/19 13:48	11/24/19 20:19	108-05-4	IL
Vinyl chloride	ND	mg/kg	0.0087	0.0016	1	11/24/19 13:48	11/24/19 20:19	75-01-4	
Xylene (Total)	ND	mg/kg	0.0087	0.0030	1	11/24/19 13:48	11/24/19 20:19	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0087	0.0020	1	11/24/19 13:48	11/24/19 20:19	179601-23-1	
o-Xylene	ND	mg/kg	0.0043	0.0010	1	11/24/19 13:48	11/24/19 20:19	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	70-130		1	11/24/19 13:48	11/24/19 20:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1	11/24/19 13:48	11/24/19 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-132		1	11/24/19 13:48	11/24/19 20:19	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	0.0084	0.0025	1	11/25/19 11:52	11/25/19 12:16	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	50-150		1	11/25/19 11:52	11/25/19 12:16	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1	11/25/19 11:52	11/25/19 12:16	2037-26-5	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>3.7</b>	%	0.10	0.10	1		11/21/19 13:25		

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (15-17)**      **Lab ID: 92454623002**      Collected: 11/19/19 15:10      Received: 11/20/19 10:26      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>6010 MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Arsenic	<b>0.78J</b>	mg/kg	1.2	0.61	1	11/21/19 16:35	11/23/19 01:41	7440-38-2	
Barium	<b>453</b>	mg/kg	0.61	0.31	1	11/21/19 16:35	11/23/19 01:41	7440-39-3	
Cadmium	ND	mg/kg	0.12	0.061	1	11/21/19 16:35	11/23/19 01:41	7440-43-9	
Chromium	<b>21.4</b>	mg/kg	0.61	0.31	1	11/21/19 16:35	11/23/19 01:41	7440-47-3	
Lead	<b>7.2</b>	mg/kg	0.61	0.31	1	11/21/19 16:35	11/23/19 01:41	7439-92-1	
Selenium	<b>0.87J</b>	mg/kg	1.2	0.61	1	11/21/19 16:35	11/23/19 01:41	7782-49-2	
Silver	ND	mg/kg	0.61	0.31	1	11/21/19 16:35	11/23/19 01:41	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>0.012</b>	mg/kg	0.0048	0.0024	1	11/21/19 11:57	11/22/19 12:06	7439-97-6	B,BC
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.41	0.096	1	11/23/19 13:40	11/25/19 21:02	208-96-8	
Aniline	ND	mg/kg	0.41	0.091	1	11/23/19 13:40	11/25/19 21:02	62-53-3	
Anthracene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.41	0.13	1	11/23/19 13:40	11/25/19 21:02	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.41	0.18	1	11/23/19 13:40	11/25/19 21:02	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.41	0.16	1	11/23/19 13:40	11/25/19 21:02	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.41	0.16	1	11/23/19 13:40	11/25/19 21:02	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.41	0.17	1	11/23/19 13:40	11/25/19 21:02	207-08-9	
Benzoic Acid	ND	mg/kg	2.0	0.44	1	11/23/19 13:40	11/25/19 21:02	65-85-0	
Benzyl alcohol	ND	mg/kg	0.81	0.22	1	11/23/19 13:40	11/25/19 21:02	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.81	0.25	1	11/23/19 13:40	11/25/19 21:02	59-50-7	
4-Chloroaniline	ND	mg/kg	2.0	0.25	1	11/23/19 13:40	11/25/19 21:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.41	0.086	1	11/23/19 13:40	11/25/19 21:02	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.41	0.091	1	11/23/19 13:40	11/25/19 21:02	91-58-7	
2-Chlorophenol	ND	mg/kg	0.41	0.095	1	11/23/19 13:40	11/25/19 21:02	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	7005-72-3	
Chrysene	ND	mg/kg	0.41	0.12	1	11/23/19 13:40	11/25/19 21:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.41	0.16	1	11/23/19 13:40	11/25/19 21:02	53-70-3	
Dibenzofuran	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.41	0.088	1	11/23/19 13:40	11/25/19 21:02	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.41	0.092	1	11/23/19 13:40	11/25/19 21:02	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.41	0.089	1	11/23/19 13:40	11/25/19 21:02	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.0	0.28	1	11/23/19 13:40	11/25/19 21:02	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.41	0.13	1	11/23/19 13:40	11/25/19 21:02	120-83-2	
Diethylphthalate	ND	mg/kg	0.41	0.088	1	11/23/19 13:40	11/25/19 21:02	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	105-67-9	
Dimethylphthalate	ND	mg/kg	0.41	0.092	1	11/23/19 13:40	11/25/19 21:02	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.81	0.66	1	11/23/19 13:40	11/25/19 21:02	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (15-17)**      **Lab ID: 92454623002**      Collected: 11/19/19 15:10      Received: 11/20/19 10:26      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.0	1.3	1	11/23/19 13:40	11/25/19 21:02	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.41	0.23	1	11/23/19 13:40	11/25/19 21:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.41	0.13	1	11/23/19 13:40	11/25/19 21:02	117-81-7	
Fluoranthene	ND	mg/kg	0.41	0.12	1	11/23/19 13:40	11/25/19 21:02	206-44-0	
Fluorene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.41	0.099	1	11/23/19 13:40	11/25/19 21:02	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.41	0.16	1	11/23/19 13:40	11/25/19 21:02	77-47-4	M1,v2
Hexachloroethane	ND	mg/kg	0.41	0.093	1	11/23/19 13:40	11/25/19 21:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.41	0.19	1	11/23/19 13:40	11/25/19 21:02	193-39-5	
Isophorone	ND	mg/kg	0.41	0.088	1	11/23/19 13:40	11/25/19 21:02	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.41	0.090	1	11/23/19 13:40	11/25/19 21:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	15831-10-4	
Naphthalene	ND	mg/kg	0.41	0.097	1	11/23/19 13:40	11/25/19 21:02	91-20-3	
2-Nitroaniline	ND	mg/kg	2.0	0.20	1	11/23/19 13:40	11/25/19 21:02	88-74-4	v1
3-Nitroaniline	ND	mg/kg	2.0	0.22	1	11/23/19 13:40	11/25/19 21:02	99-09-2	
4-Nitroaniline	ND	mg/kg	0.81	0.20	1	11/23/19 13:40	11/25/19 21:02	100-01-6	
Nitrobenzene	ND	mg/kg	0.41	0.097	1	11/23/19 13:40	11/25/19 21:02	98-95-3	
2-Nitrophenol	ND	mg/kg	0.41	0.13	1	11/23/19 13:40	11/25/19 21:02	88-75-5	
4-Nitrophenol	ND	mg/kg	2.0	0.65	1	11/23/19 13:40	11/25/19 21:02	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	108-60-1	
Pentachlorophenol	ND	mg/kg	2.0	0.19	1	11/23/19 13:40	11/25/19 21:02	87-86-5	
Phenanthrene	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	85-01-8	
Phenol	ND	mg/kg	0.41	0.097	1	11/23/19 13:40	11/25/19 21:02	108-95-2	
Pyrene	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	129-00-0	
Pyridine	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.41	0.093	1	11/23/19 13:40	11/25/19 21:02	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.41	0.11	1	11/23/19 13:40	11/25/19 21:02	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.41	0.10	1	11/23/19 13:40	11/25/19 21:02	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	53	%	23-110		1	11/23/19 13:40	11/25/19 21:02	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-110		1	11/23/19 13:40	11/25/19 21:02	321-60-8	
Terphenyl-d14 (S)	68	%	28-110		1	11/23/19 13:40	11/25/19 21:02	1718-51-0	
Phenol-d6 (S)	51	%	22-110		1	11/23/19 13:40	11/25/19 21:02	13127-88-3	
2-Fluorophenol (S)	50	%	13-110		1	11/23/19 13:40	11/25/19 21:02	367-12-4	
2,4,6-Tribromophenol (S)	66	%	27-110		1	11/23/19 13:40	11/25/19 21:02	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (15-17)**      **Lab ID: 92454623002**      Collected: 11/19/19 15:10      Received: 11/20/19 10:26      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	ND	mg/kg	0.11	0.010	1	11/24/19 13:48	11/24/19 20:44	67-64-1	
Benzene	ND	mg/kg	0.0054	0.00098	1	11/24/19 13:48	11/24/19 20:44	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	0.0015	1	11/24/19 13:48	11/24/19 20:44	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	0.0013	1	11/24/19 13:48	11/24/19 20:44	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	0.0011	1	11/24/19 13:48	11/24/19 20:44	75-27-4	
Bromoform	ND	mg/kg	0.0054	0.0027	1	11/24/19 13:48	11/24/19 20:44	75-25-2	
Bromomethane	ND	mg/kg	0.011	0.0026	1	11/24/19 13:48	11/24/19 20:44	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.11	0.013	1	11/24/19 13:48	11/24/19 20:44	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0054	0.0031	1	11/24/19 13:48	11/24/19 20:44	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0054	0.0023	1	11/24/19 13:48	11/24/19 20:44	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	0.0018	1	11/24/19 13:48	11/24/19 20:44	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0054	0.0010	1	11/24/19 13:48	11/24/19 20:44	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	0.0011	1	11/24/19 13:48	11/24/19 20:44	108-90-7	
Chloroethane	ND	mg/kg	0.011	0.0023	1	11/24/19 13:48	11/24/19 20:44	75-00-3	
Chloroform	ND	mg/kg	0.0054	0.0012	1	11/24/19 13:48	11/24/19 20:44	67-66-3	
Chloromethane	ND	mg/kg	0.011	0.0036	1	11/24/19 13:48	11/24/19 20:44	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	0.0017	1	11/24/19 13:48	11/24/19 20:44	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	0.0016	1	11/24/19 13:48	11/24/19 20:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0054	0.0028	1	11/24/19 13:48	11/24/19 20:44	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0054	0.0027	1	11/24/19 13:48	11/24/19 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0054	0.0012	1	11/24/19 13:48	11/24/19 20:44	106-93-4	
Dibromomethane	ND	mg/kg	0.0054	0.0016	1	11/24/19 13:48	11/24/19 20:44	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	0.0019	1	11/24/19 13:48	11/24/19 20:44	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	0.0019	1	11/24/19 13:48	11/24/19 20:44	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	0.0019	1	11/24/19 13:48	11/24/19 20:44	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.011	0.0045	1	11/24/19 13:48	11/24/19 20:44	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	0.00080	1	11/24/19 13:48	11/24/19 20:44	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	0.0011	1	11/24/19 13:48	11/24/19 20:44	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	0.0013	1	11/24/19 13:48	11/24/19 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	0.00094	1	11/24/19 13:48	11/24/19 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	0.0011	1	11/24/19 13:48	11/24/19 20:44	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	0.0020	1	11/24/19 13:48	11/24/19 20:44	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	0.0021	1	11/24/19 13:48	11/24/19 20:44	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	0.00054	1	11/24/19 13:48	11/24/19 20:44	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	0.0023	1	11/24/19 13:48	11/24/19 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	0.0025	1	11/24/19 13:48	11/24/19 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	0.00095	1	11/24/19 13:48	11/24/19 20:44	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0054	0.0031	1	11/24/19 13:48	11/24/19 20:44	108-20-3	
Ethylbenzene	ND	mg/kg	0.0054	0.0012	1	11/24/19 13:48	11/24/19 20:44	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0054	0.0027	1	11/24/19 13:48	11/24/19 20:44	87-68-3	
2-Hexanone	ND	mg/kg	0.054	0.0056	1	11/24/19 13:48	11/24/19 20:44	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0054	0.0016	1	11/24/19 13:48	11/24/19 20:44	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	0.0026	1	11/24/19 13:48	11/24/19 20:44	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	0.0064	1	11/24/19 13:48	11/24/19 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.054	0.0041	1	11/24/19 13:48	11/24/19 20:44	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (15-17)**      **Lab ID: 92454623002**      Collected: 11/19/19 15:10      Received: 11/20/19 10:26      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	0.0054	0.0031	1	11/24/19 13:48	11/24/19 20:44	1634-04-4	
Naphthalene	ND	mg/kg	0.0054	0.0046	1	11/24/19 13:48	11/24/19 20:44	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0054	0.0018	1	11/24/19 13:48	11/24/19 20:44	103-65-1	
Styrene	ND	mg/kg	0.0054	0.0016	1	11/24/19 13:48	11/24/19 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	0.0013	1	11/24/19 13:48	11/24/19 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	0.0019	1	11/24/19 13:48	11/24/19 20:44	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	0.0017	1	11/24/19 13:48	11/24/19 20:44	127-18-4	
Toluene	ND	mg/kg	0.0054	0.0018	1	11/24/19 13:48	11/24/19 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	0.0039	1	11/24/19 13:48	11/24/19 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	0.0029	1	11/24/19 13:48	11/24/19 20:44	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	0.00095	1	11/24/19 13:48	11/24/19 20:44	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	0.0012	1	11/24/19 13:48	11/24/19 20:44	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	0.0014	1	11/24/19 13:48	11/24/19 20:44	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	0.0013	1	11/24/19 13:48	11/24/19 20:44	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0054	0.0018	1	11/24/19 13:48	11/24/19 20:44	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	0.0021	1	11/24/19 13:48	11/24/19 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	0.0018	1	11/24/19 13:48	11/24/19 20:44	108-67-8	
Vinyl acetate	ND	mg/kg	0.054	0.018	1	11/24/19 13:48	11/24/19 20:44	108-05-4	IL
Vinyl chloride	ND	mg/kg	0.011	0.0021	1	11/24/19 13:48	11/24/19 20:44	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	0.0038	1	11/24/19 13:48	11/24/19 20:44	1330-20-7	
m&p-Xylene	ND	mg/kg	0.011	0.0026	1	11/24/19 13:48	11/24/19 20:44	179601-23-1	
o-Xylene	ND	mg/kg	0.0054	0.0013	1	11/24/19 13:48	11/24/19 20:44	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	106	%	70-130		1	11/24/19 13:48	11/24/19 20:44	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	11/24/19 13:48	11/24/19 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-132		1	11/24/19 13:48	11/24/19 20:44	17060-07-0	
<b>8260D MSV SIM Soil</b>									
Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod.									
1,4-Dioxane (p-Dioxane)	<b>0.0047J</b>	mg/kg	0.011	0.0034	1	11/25/19 11:52	11/25/19 12:36	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1	11/25/19 11:52	11/25/19 12:36	17060-07-0	
Toluene-d8 (S)	103	%	50-150		1	11/25/19 11:52	11/25/19 12:36	2037-26-5	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>18.5</b>	%	0.10	0.10	1		11/21/19 13:25		

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92454623

**Sample: SB-2 (22-24)**      **Lab ID: 92454623003**      Collected: 11/19/19 15:45      Received: 11/20/19 10:26      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	<b>3.3J</b>	mg/kg	6.4	3.2	5	11/21/19 16:35	11/23/19 15:50	7440-38-2	D3
Barium	<b>468</b>	mg/kg	3.2	1.6	5	11/21/19 16:35	11/23/19 15:50	7440-39-3	D3
Cadmium	ND	mg/kg	0.64	0.32	5	11/21/19 16:35	11/23/19 15:50	7440-43-9	D3
Chromium	<b>167</b>	mg/kg	3.2	1.6	5	11/21/19 16:35	11/23/19 15:50	7440-47-3	D3
Lead	<b>8.3</b>	mg/kg	3.2	1.6	5	11/21/19 16:35	11/23/19 15:50	7439-92-1	D3
Selenium	<b>3.7J</b>	mg/kg	6.4	3.2	5	11/21/19 16:35	11/23/19 15:50	7782-49-2	D3
Silver	ND	mg/kg	3.2	1.6	5	11/21/19 16:35	11/23/19 15:50	7440-22-4	D3
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.0053</b>	mg/kg	0.0026	0.0013	1	11/21/19 11:57	11/22/19 12:09	7439-97-6	B,BC
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	83-32-9	
Acenaphthylene	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	208-96-8	
Aniline	ND	mg/kg	0.43	0.096	1	11/23/19 13:40	11/25/19 16:49	62-53-3	
Anthracene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.43	0.14	1	11/23/19 13:40	11/25/19 16:49	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.43	0.19	1	11/23/19 13:40	11/25/19 16:49	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.43	0.17	1	11/23/19 13:40	11/25/19 16:49	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.43	0.17	1	11/23/19 13:40	11/25/19 16:49	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.43	0.18	1	11/23/19 13:40	11/25/19 16:49	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	0.46	1	11/23/19 13:40	11/25/19 16:49	65-85-0	
Benzyl alcohol	ND	mg/kg	0.86	0.23	1	11/23/19 13:40	11/25/19 16:49	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.86	0.26	1	11/23/19 13:40	11/25/19 16:49	59-50-7	
4-Chloroaniline	ND	mg/kg	2.1	0.26	1	11/23/19 13:40	11/25/19 16:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.43	0.091	1	11/23/19 13:40	11/25/19 16:49	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.43	0.095	1	11/23/19 13:40	11/25/19 16:49	91-58-7	
2-Chlorophenol	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	7005-72-3	
Chrysene	ND	mg/kg	0.43	0.12	1	11/23/19 13:40	11/25/19 16:49	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.43	0.17	1	11/23/19 13:40	11/25/19 16:49	53-70-3	
Dibenzofuran	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.43	0.093	1	11/23/19 13:40	11/25/19 16:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.43	0.097	1	11/23/19 13:40	11/25/19 16:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.43	0.094	1	11/23/19 13:40	11/25/19 16:49	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.1	0.30	1	11/23/19 13:40	11/25/19 16:49	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.43	0.14	1	11/23/19 13:40	11/25/19 16:49	120-83-2	
Diethylphthalate	ND	mg/kg	0.43	0.093	1	11/23/19 13:40	11/25/19 16:49	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	105-67-9	
Dimethylphthalate	ND	mg/kg	0.43	0.097	1	11/23/19 13:40	11/25/19 16:49	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.86	0.69	1	11/23/19 13:40	11/25/19 16:49	534-52-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (22-24)**      **Lab ID: 92454623003**      Collected: 11/19/19 15:45      Received: 11/20/19 10:26      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>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.1	1.4	1	11/23/19 13:40	11/25/19 16:49	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.43	0.24	1	11/23/19 13:40	11/25/19 16:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.43	0.14	1	11/23/19 13:40	11/25/19 16:49	117-81-7	
Fluoranthene	ND	mg/kg	0.43	0.13	1	11/23/19 13:40	11/25/19 16:49	206-44-0	
Fluorene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.43	0.17	1	11/23/19 13:40	11/25/19 16:49	77-47-4	v2
Hexachloroethane	ND	mg/kg	0.43	0.098	1	11/23/19 13:40	11/25/19 16:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.43	0.20	1	11/23/19 13:40	11/25/19 16:49	193-39-5	
Isophorone	ND	mg/kg	0.43	0.093	1	11/23/19 13:40	11/25/19 16:49	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.43	0.095	1	11/23/19 13:40	11/25/19 16:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	15831-10-4	
Naphthalene	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	91-20-3	
2-Nitroaniline	ND	mg/kg	2.1	0.22	1	11/23/19 13:40	11/25/19 16:49	88-74-4	v1
3-Nitroaniline	ND	mg/kg	2.1	0.23	1	11/23/19 13:40	11/25/19 16:49	99-09-2	
4-Nitroaniline	ND	mg/kg	0.86	0.21	1	11/23/19 13:40	11/25/19 16:49	100-01-6	
Nitrobenzene	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	98-95-3	
2-Nitrophenol	ND	mg/kg	0.43	0.13	1	11/23/19 13:40	11/25/19 16:49	88-75-5	
4-Nitrophenol	ND	mg/kg	2.1	0.68	1	11/23/19 13:40	11/25/19 16:49	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.43	0.12	1	11/23/19 13:40	11/25/19 16:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.43	0.12	1	11/23/19 13:40	11/25/19 16:49	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.43	0.12	1	11/23/19 13:40	11/25/19 16:49	108-60-1	
Pentachlorophenol	ND	mg/kg	2.1	0.20	1	11/23/19 13:40	11/25/19 16:49	87-86-5	
Phenanthrene	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	85-01-8	
Phenol	ND	mg/kg	0.43	0.10	1	11/23/19 13:40	11/25/19 16:49	108-95-2	
Pyrene	ND	mg/kg	0.43	0.12	1	11/23/19 13:40	11/25/19 16:49	129-00-0	
Pyridine	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.43	0.098	1	11/23/19 13:40	11/25/19 16:49	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.43	0.11	1	11/23/19 13:40	11/25/19 16:49	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	46	%	23-110		1	11/23/19 13:40	11/25/19 16:49	4165-60-0	
2-Fluorobiphenyl (S)	44	%	30-110		1	11/23/19 13:40	11/25/19 16:49	321-60-8	
Terphenyl-d14 (S)	46	%	28-110		1	11/23/19 13:40	11/25/19 16:49	1718-51-0	
Phenol-d6 (S)	44	%	22-110		1	11/23/19 13:40	11/25/19 16:49	13127-88-3	
2-Fluorophenol (S)	43	%	13-110		1	11/23/19 13:40	11/25/19 16:49	367-12-4	
2,4,6-Tribromophenol (S)	39	%	27-110		1	11/23/19 13:40	11/25/19 16:49	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (22-24)**      **Lab ID: 92454623003**      Collected: 11/19/19 15:45      Received: 11/20/19 10:26      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	ND	mg/kg	0.11	0.011	1	11/24/19 13:48	11/24/19 21:08	67-64-1	
Benzene	ND	mg/kg	0.0056	0.0010	1	11/24/19 13:48	11/24/19 21:08	71-43-2	
Bromobenzene	ND	mg/kg	0.0056	0.0015	1	11/24/19 13:48	11/24/19 21:08	108-86-1	
Bromochloromethane	ND	mg/kg	0.0056	0.0014	1	11/24/19 13:48	11/24/19 21:08	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0056	0.0011	1	11/24/19 13:48	11/24/19 21:08	75-27-4	
Bromoform	ND	mg/kg	0.0056	0.0027	1	11/24/19 13:48	11/24/19 21:08	75-25-2	
Bromomethane	ND	mg/kg	0.011	0.0026	1	11/24/19 13:48	11/24/19 21:08	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.11	0.013	1	11/24/19 13:48	11/24/19 21:08	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0056	0.0032	1	11/24/19 13:48	11/24/19 21:08	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0056	0.0024	1	11/24/19 13:48	11/24/19 21:08	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0056	0.0011	1	11/24/19 13:48	11/24/19 21:08	56-23-5	
Chlorobenzene	ND	mg/kg	0.0056	0.0011	1	11/24/19 13:48	11/24/19 21:08	108-90-7	
Chloroethane	ND	mg/kg	0.011	0.0023	1	11/24/19 13:48	11/24/19 21:08	75-00-3	
Chloroform	ND	mg/kg	0.0056	0.0012	1	11/24/19 13:48	11/24/19 21:08	67-66-3	
Chloromethane	ND	mg/kg	0.011	0.0037	1	11/24/19 13:48	11/24/19 21:08	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0056	0.0017	1	11/24/19 13:48	11/24/19 21:08	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0056	0.0017	1	11/24/19 13:48	11/24/19 21:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0056	0.0029	1	11/24/19 13:48	11/24/19 21:08	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0056	0.0028	1	11/24/19 13:48	11/24/19 21:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0056	0.0013	1	11/24/19 13:48	11/24/19 21:08	106-93-4	
Dibromomethane	ND	mg/kg	0.0056	0.0017	1	11/24/19 13:48	11/24/19 21:08	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0056	0.0020	1	11/24/19 13:48	11/24/19 21:08	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0056	0.0020	1	11/24/19 13:48	11/24/19 21:08	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.011	0.0046	1	11/24/19 13:48	11/24/19 21:08	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0056	0.00082	1	11/24/19 13:48	11/24/19 21:08	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0056	0.0011	1	11/24/19 13:48	11/24/19 21:08	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0056	0.0013	1	11/24/19 13:48	11/24/19 21:08	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0056	0.00097	1	11/24/19 13:48	11/24/19 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0056	0.0011	1	11/24/19 13:48	11/24/19 21:08	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0056	0.0021	1	11/24/19 13:48	11/24/19 21:08	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0056	0.0021	1	11/24/19 13:48	11/24/19 21:08	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0056	0.00055	1	11/24/19 13:48	11/24/19 21:08	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0056	0.0024	1	11/24/19 13:48	11/24/19 21:08	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0056	0.0025	1	11/24/19 13:48	11/24/19 21:08	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0056	0.00098	1	11/24/19 13:48	11/24/19 21:08	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0056	0.0032	1	11/24/19 13:48	11/24/19 21:08	108-20-3	
Ethylbenzene	ND	mg/kg	0.0056	0.0012	1	11/24/19 13:48	11/24/19 21:08	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0056	0.0028	1	11/24/19 13:48	11/24/19 21:08	87-68-3	
2-Hexanone	ND	mg/kg	0.056	0.0058	1	11/24/19 13:48	11/24/19 21:08	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0056	0.0016	1	11/24/19 13:48	11/24/19 21:08	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0056	0.0027	1	11/24/19 13:48	11/24/19 21:08	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	0.0066	1	11/24/19 13:48	11/24/19 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.056	0.0042	1	11/24/19 13:48	11/24/19 21:08	108-10-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-2 (22-24)**      **Lab ID: 92454623003**      Collected: 11/19/19 15:45      Received: 11/20/19 10:26      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	0.0056	0.0032	1	11/24/19 13:48	11/24/19 21:08	1634-04-4	
Naphthalene	ND	mg/kg	0.0056	0.0048	1	11/24/19 13:48	11/24/19 21:08	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	103-65-1	
Styrene	ND	mg/kg	0.0056	0.0017	1	11/24/19 13:48	11/24/19 21:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0056	0.0014	1	11/24/19 13:48	11/24/19 21:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0056	0.0018	1	11/24/19 13:48	11/24/19 21:08	127-18-4	
Toluene	ND	mg/kg	0.0056	0.0018	1	11/24/19 13:48	11/24/19 21:08	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0056	0.0040	1	11/24/19 13:48	11/24/19 21:08	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0056	0.0030	1	11/24/19 13:48	11/24/19 21:08	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0056	0.00098	1	11/24/19 13:48	11/24/19 21:08	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0056	0.0013	1	11/24/19 13:48	11/24/19 21:08	79-00-5	
Trichloroethene	ND	mg/kg	0.0056	0.0015	1	11/24/19 13:48	11/24/19 21:08	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0056	0.0013	1	11/24/19 13:48	11/24/19 21:08	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0056	0.0022	1	11/24/19 13:48	11/24/19 21:08	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0056	0.0019	1	11/24/19 13:48	11/24/19 21:08	108-67-8	
Vinyl acetate	ND	mg/kg	0.056	0.018	1	11/24/19 13:48	11/24/19 21:08	108-05-4	
Vinyl chloride	ND	mg/kg	0.011	0.0021	1	11/24/19 13:48	11/24/19 21:08	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	0.0039	1	11/24/19 13:48	11/24/19 21:08	1330-20-7	
m&p-Xylene	ND	mg/kg	0.011	0.0026	1	11/24/19 13:48	11/24/19 21:08	179601-23-1	
o-Xylene	ND	mg/kg	0.0056	0.0013	1	11/24/19 13:48	11/24/19 21:08	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	70-130		1	11/24/19 13:48	11/24/19 21:08	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1	11/24/19 13:48	11/24/19 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-132		1	11/24/19 13:48	11/24/19 21:08	17060-07-0	
<b>8260D MSV SIM Soil</b> Analytical Method: EPA 8260D Mod.      Preparation Method: EPA 8260D Mod.									
1,4-Dioxane (p-Dioxane)	<b>0.014</b>	mg/kg	0.012	0.0035	1	11/25/19 11:52	11/25/19 12:56	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	50-150		1	11/25/19 11:52	11/25/19 12:56	17060-07-0	
Toluene-d8 (S)	103	%	50-150		1	11/25/19 11:52	11/25/19 12:56	2037-26-5	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>22.0</b>	%	0.10	0.10	1		11/21/19 13:25		
<b>Total Solids 2540 G-2011</b> Analytical Method: SM 2540G      Preparation Method: SM 2540 G									
Total Solids	<b>78.1</b>	%			1	01/10/20 14:45	01/10/20 14:55		H3
<b>Wet Chemistry 7199</b> Analytical Method: EPA 7199      Preparation Method: 3060A									
Chromium, Hexavalent	ND	mg/kg	1.28	0.327	1	01/10/20 20:50	01/11/20 14:27	18540-29-9	H3

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (15-17)**      **Lab ID: 92454623004**      Collected: 11/20/19 09:20      Received: 11/20/19 10:26      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>6010 MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Arsenic	1.5	mg/kg	1.4	0.70	1	11/21/19 16:35	11/23/19 01:47	7440-38-2	
Barium	169	mg/kg	0.70	0.35	1	11/21/19 16:35	11/23/19 01:47	7440-39-3	
Cadmium	ND	mg/kg	0.14	0.070	1	11/21/19 16:35	11/23/19 01:47	7440-43-9	
Chromium	31.6	mg/kg	0.70	0.35	1	11/21/19 16:35	11/23/19 01:47	7440-47-3	
Lead	11.1	mg/kg	0.70	0.35	1	11/21/19 16:35	11/23/19 01:47	7439-92-1	
Selenium	ND	mg/kg	1.4	0.70	1	11/21/19 16:35	11/23/19 01:47	7782-49-2	
Silver	ND	mg/kg	0.70	0.35	1	11/21/19 16:35	11/23/19 01:47	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.0044	mg/kg	0.0027	0.0014	1	11/21/19 11:57	11/22/19 12:11	7439-97-6	B,BC
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	83-32-9	
Acenaphthylene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	208-96-8	
Aniline	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	62-53-3	
Anthracene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 17:18	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.47	0.20	1	11/23/19 13:40	11/25/19 17:18	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 17:18	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.47	0.18	1	11/23/19 13:40	11/25/19 17:18	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.47	0.20	1	11/23/19 13:40	11/25/19 17:18	207-08-9	
Benzoic Acid	ND	mg/kg	2.3	0.50	1	11/23/19 13:40	11/25/19 17:18	65-85-0	
Benzyl alcohol	ND	mg/kg	0.93	0.25	1	11/23/19 13:40	11/25/19 17:18	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.93	0.28	1	11/23/19 13:40	11/25/19 17:18	59-50-7	
4-Chloroaniline	ND	mg/kg	2.3	0.28	1	11/23/19 13:40	11/25/19 17:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.47	0.099	1	11/23/19 13:40	11/25/19 17:18	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	91-58-7	
2-Chlorophenol	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	7005-72-3	
Chrysene	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 17:18	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 17:18	53-70-3	
Dibenzofuran	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.3	0.32	1	11/23/19 13:40	11/25/19 17:18	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 17:18	120-83-2	
Diethylphthalate	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	105-67-9	
Dimethylphthalate	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.93	0.75	1	11/23/19 13:40	11/25/19 17:18	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (15-17)**      **Lab ID: 92454623004**      Collected: 11/20/19 09:20      Received: 11/20/19 10:26      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.3	1.5	1	11/23/19 13:40	11/25/19 17:18	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.47	0.27	1	11/23/19 13:40	11/25/19 17:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 17:18	117-81-7	
Fluoranthene	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 17:18	206-44-0	
Fluorene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 17:18	77-47-4	v2
Hexachloroethane	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.47	0.21	1	11/23/19 13:40	11/25/19 17:18	193-39-5	
Isophorone	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 17:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	15831-10-4	
Naphthalene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	91-20-3	
2-Nitroaniline	ND	mg/kg	2.3	0.23	1	11/23/19 13:40	11/25/19 17:18	88-74-4	v1
3-Nitroaniline	ND	mg/kg	2.3	0.25	1	11/23/19 13:40	11/25/19 17:18	99-09-2	
4-Nitroaniline	ND	mg/kg	0.93	0.23	1	11/23/19 13:40	11/25/19 17:18	100-01-6	
Nitrobenzene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	98-95-3	
2-Nitrophenol	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 17:18	88-75-5	
4-Nitrophenol	ND	mg/kg	2.3	0.74	1	11/23/19 13:40	11/25/19 17:18	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 17:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 17:18	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 17:18	108-60-1	
Pentachlorophenol	ND	mg/kg	2.3	0.21	1	11/23/19 13:40	11/25/19 17:18	87-86-5	
Phenanthrene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	85-01-8	
Phenol	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	108-95-2	
Pyrene	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 17:18	129-00-0	
Pyridine	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 17:18	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 17:18	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	69	%	23-110		1	11/23/19 13:40	11/25/19 17:18	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-110		1	11/23/19 13:40	11/25/19 17:18	321-60-8	
Terphenyl-d14 (S)	77	%	28-110		1	11/23/19 13:40	11/25/19 17:18	1718-51-0	
Phenol-d6 (S)	65	%	22-110		1	11/23/19 13:40	11/25/19 17:18	13127-88-3	
2-Fluorophenol (S)	58	%	13-110		1	11/23/19 13:40	11/25/19 17:18	367-12-4	
2,4,6-Tribromophenol (S)	55	%	27-110		1	11/23/19 13:40	11/25/19 17:18	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (15-17)**      **Lab ID: 92454623004**      Collected: 11/20/19 09:20      Received: 11/20/19 10:26      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	ND	mg/kg	0.14	0.013	1	11/25/19 10:08	11/25/19 17:18	67-64-1	
Benzene	ND	mg/kg	0.0068	0.0012	1	11/25/19 10:08	11/25/19 17:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0068	0.0018	1	11/25/19 10:08	11/25/19 17:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0068	0.0017	1	11/25/19 10:08	11/25/19 17:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0068	0.0013	1	11/25/19 10:08	11/25/19 17:18	75-27-4	
Bromoform	ND	mg/kg	0.0068	0.0033	1	11/25/19 10:08	11/25/19 17:18	75-25-2	
Bromomethane	ND	mg/kg	0.014	0.0032	1	11/25/19 10:08	11/25/19 17:18	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.14	0.016	1	11/25/19 10:08	11/25/19 17:18	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0068	0.0038	1	11/25/19 10:08	11/25/19 17:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0068	0.0029	1	11/25/19 10:08	11/25/19 17:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0068	0.0023	1	11/25/19 10:08	11/25/19 17:18	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0068	0.0013	1	11/25/19 10:08	11/25/19 17:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0068	0.0013	1	11/25/19 10:08	11/25/19 17:18	108-90-7	
Chloroethane	ND	mg/kg	0.014	0.0028	1	11/25/19 10:08	11/25/19 17:18	75-00-3	IK
Chloroform	ND	mg/kg	0.0068	0.0014	1	11/25/19 10:08	11/25/19 17:18	67-66-3	
Chloromethane	ND	mg/kg	0.014	0.0045	1	11/25/19 10:08	11/25/19 17:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0068	0.0021	1	11/25/19 10:08	11/25/19 17:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0068	0.0020	1	11/25/19 10:08	11/25/19 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0068	0.0035	1	11/25/19 10:08	11/25/19 17:18	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0068	0.0034	1	11/25/19 10:08	11/25/19 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0068	0.0015	1	11/25/19 10:08	11/25/19 17:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0068	0.0020	1	11/25/19 10:08	11/25/19 17:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0068	0.0024	1	11/25/19 10:08	11/25/19 17:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0068	0.0024	1	11/25/19 10:08	11/25/19 17:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0068	0.0024	1	11/25/19 10:08	11/25/19 17:18	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.014	0.0056	1	11/25/19 10:08	11/25/19 17:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0068	0.0010	1	11/25/19 10:08	11/25/19 17:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0068	0.0014	1	11/25/19 10:08	11/25/19 17:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0068	0.0016	1	11/25/19 10:08	11/25/19 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0068	0.0012	1	11/25/19 10:08	11/25/19 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0068	0.0013	1	11/25/19 10:08	11/25/19 17:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0068	0.0026	1	11/25/19 10:08	11/25/19 17:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0068	0.0026	1	11/25/19 10:08	11/25/19 17:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0068	0.00067	1	11/25/19 10:08	11/25/19 17:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0068	0.0029	1	11/25/19 10:08	11/25/19 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0068	0.0031	1	11/25/19 10:08	11/25/19 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0068	0.0012	1	11/25/19 10:08	11/25/19 17:18	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0068	0.0039	1	11/25/19 10:08	11/25/19 17:18	108-20-3	
Ethylbenzene	ND	mg/kg	0.0068	0.0014	1	11/25/19 10:08	11/25/19 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0068	0.0034	1	11/25/19 10:08	11/25/19 17:18	87-68-3	
2-Hexanone	ND	mg/kg	0.068	0.0070	1	11/25/19 10:08	11/25/19 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0068	0.0020	1	11/25/19 10:08	11/25/19 17:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0068	0.0033	1	11/25/19 10:08	11/25/19 17:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	0.0080	1	11/25/19 10:08	11/25/19 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.068	0.0051	1	11/25/19 10:08	11/25/19 17:18	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (15-17)**      **Lab ID: 92454623004**      Collected: 11/20/19 09:20      Received: 11/20/19 10:26      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	0.0068	0.0039	1	11/25/19 10:08	11/25/19 17:18	1634-04-4	
Naphthalene	ND	mg/kg	0.0068	0.0058	1	11/25/19 10:08	11/25/19 17:18	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0068	0.0023	1	11/25/19 10:08	11/25/19 17:18	103-65-1	
Styrene	ND	mg/kg	0.0068	0.0020	1	11/25/19 10:08	11/25/19 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0068	0.0017	1	11/25/19 10:08	11/25/19 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0068	0.0024	1	11/25/19 10:08	11/25/19 17:18	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0068	0.0021	1	11/25/19 10:08	11/25/19 17:18	127-18-4	
Toluene	ND	mg/kg	0.0068	0.0022	1	11/25/19 10:08	11/25/19 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0068	0.0048	1	11/25/19 10:08	11/25/19 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0068	0.0036	1	11/25/19 10:08	11/25/19 17:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0068	0.0012	1	11/25/19 10:08	11/25/19 17:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0068	0.0015	1	11/25/19 10:08	11/25/19 17:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0068	0.0018	1	11/25/19 10:08	11/25/19 17:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0068	0.0016	1	11/25/19 10:08	11/25/19 17:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0068	0.0023	1	11/25/19 10:08	11/25/19 17:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0068	0.0026	1	11/25/19 10:08	11/25/19 17:18	95-63-6	v1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0068	0.0023	1	11/25/19 10:08	11/25/19 17:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.068	0.022	1	11/25/19 10:08	11/25/19 17:18	108-05-4	v1
Vinyl chloride	ND	mg/kg	0.014	0.0026	1	11/25/19 10:08	11/25/19 17:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.014	0.0048	1	11/25/19 10:08	11/25/19 17:18	1330-20-7	
m&p-Xylene	ND	mg/kg	0.014	0.0032	1	11/25/19 10:08	11/25/19 17:18	179601-23-1	
o-Xylene	ND	mg/kg	0.0068	0.0016	1	11/25/19 10:08	11/25/19 17:18	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	117	%	70-130		1	11/25/19 10:08	11/25/19 17:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1	11/25/19 10:08	11/25/19 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-132		1	11/25/19 10:08	11/25/19 17:18	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	0.013	0.0040	1	11/25/19 11:52	11/25/19 13:16	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	50-150		1	11/25/19 11:52	11/25/19 13:16	17060-07-0	
Toluene-d8 (S)	102	%	50-150		1	11/25/19 11:52	11/25/19 13:16	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>28.1</b>	%	0.10	0.10	1		11/21/19 13:25		

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (17-19)**      **Lab ID: 92454623005**      Collected: 11/20/19 10:05      Received: 11/20/19 10:26      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>6010 MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	7.0	3.5	5	11/21/19 16:35	11/23/19 15:53	7440-38-2	D3
Barium	<b>323</b>	mg/kg	3.5	1.8	5	11/21/19 16:35	11/23/19 15:53	7440-39-3	D3
Cadmium	ND	mg/kg	0.70	0.35	5	11/21/19 16:35	11/23/19 15:53	7440-43-9	D3
Chromium	<b>119</b>	mg/kg	3.5	1.8	5	11/21/19 16:35	11/23/19 15:53	7440-47-3	D3
Lead	<b>13.1</b>	mg/kg	3.5	1.8	5	11/21/19 16:35	11/23/19 15:53	7439-92-1	D3
Selenium	ND	mg/kg	7.0	3.5	5	11/21/19 16:35	11/23/19 15:53	7782-49-2	D3
Silver	ND	mg/kg	3.5	1.8	5	11/21/19 16:35	11/23/19 15:53	7440-22-4	D3
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>0.020</b>	mg/kg	0.0029	0.0014	1	11/21/19 11:57	11/22/19 12:14	7439-97-6	B,BC
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	83-32-9	
Acenaphthylene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	208-96-8	
Aniline	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	62-53-3	
Anthracene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 18:14	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.47	0.20	1	11/23/19 13:40	11/25/19 18:14	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 18:14	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.47	0.18	1	11/23/19 13:40	11/25/19 18:14	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.47	0.20	1	11/23/19 13:40	11/25/19 18:14	207-08-9	
Benzoic Acid	ND	mg/kg	2.3	0.51	1	11/23/19 13:40	11/25/19 18:14	65-85-0	
Benzyl alcohol	ND	mg/kg	0.94	0.25	1	11/23/19 13:40	11/25/19 18:14	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.94	0.29	1	11/23/19 13:40	11/25/19 18:14	59-50-7	
4-Chloroaniline	ND	mg/kg	2.3	0.29	1	11/23/19 13:40	11/25/19 18:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	91-58-7	
2-Chlorophenol	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	7005-72-3	
Chrysene	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 18:14	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 18:14	53-70-3	
Dibenzofuran	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.3	0.33	1	11/23/19 13:40	11/25/19 18:14	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 18:14	120-83-2	
Diethylphthalate	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	105-67-9	
Dimethylphthalate	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.94	0.76	1	11/23/19 13:40	11/25/19 18:14	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (17-19)**      **Lab ID: 92454623005**      Collected: 11/20/19 10:05      Received: 11/20/19 10:26      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.3	1.5	1	11/23/19 13:40	11/25/19 18:14	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.47	0.27	1	11/23/19 13:40	11/25/19 18:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.47	0.15	1	11/23/19 13:40	11/25/19 18:14	117-81-7	
Fluoranthene	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 18:14	206-44-0	
Fluorene	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.47	0.19	1	11/23/19 13:40	11/25/19 18:14	77-47-4	v2
Hexachloroethane	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.47	0.21	1	11/23/19 13:40	11/25/19 18:14	193-39-5	
Isophorone	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.47	0.10	1	11/23/19 13:40	11/25/19 18:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	15831-10-4	
Naphthalene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	91-20-3	
2-Nitroaniline	ND	mg/kg	2.3	0.24	1	11/23/19 13:40	11/25/19 18:14	88-74-4	v1
3-Nitroaniline	ND	mg/kg	2.3	0.25	1	11/23/19 13:40	11/25/19 18:14	99-09-2	
4-Nitroaniline	ND	mg/kg	0.94	0.23	1	11/23/19 13:40	11/25/19 18:14	100-01-6	
Nitrobenzene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	98-95-3	
2-Nitrophenol	ND	mg/kg	0.47	0.14	1	11/23/19 13:40	11/25/19 18:14	88-75-5	
4-Nitrophenol	ND	mg/kg	2.3	0.75	1	11/23/19 13:40	11/25/19 18:14	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	108-60-1	
Pentachlorophenol	ND	mg/kg	2.3	0.21	1	11/23/19 13:40	11/25/19 18:14	87-86-5	
Phenanthrene	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	85-01-8	
Phenol	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	108-95-2	
Pyrene	ND	mg/kg	0.47	0.13	1	11/23/19 13:40	11/25/19 18:14	129-00-0	
Pyridine	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.47	0.11	1	11/23/19 13:40	11/25/19 18:14	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.47	0.12	1	11/23/19 13:40	11/25/19 18:14	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	44	%	23-110		1	11/23/19 13:40	11/25/19 18:14	4165-60-0	
2-Fluorobiphenyl (S)	44	%	30-110		1	11/23/19 13:40	11/25/19 18:14	321-60-8	
Terphenyl-d14 (S)	47	%	28-110		1	11/23/19 13:40	11/25/19 18:14	1718-51-0	
Phenol-d6 (S)	42	%	22-110		1	11/23/19 13:40	11/25/19 18:14	13127-88-3	
2-Fluorophenol (S)	39	%	13-110		1	11/23/19 13:40	11/25/19 18:14	367-12-4	
2,4,6-Tribromophenol (S)	34	%	27-110		1	11/23/19 13:40	11/25/19 18:14	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (17-19)**      **Lab ID: 92454623005**      Collected: 11/20/19 10:05      Received: 11/20/19 10:26      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	ND	mg/kg	0.12	0.011	1	11/25/19 10:08	11/25/19 17:43	67-64-1	
Benzene	ND	mg/kg	0.0060	0.0011	1	11/25/19 10:08	11/25/19 17:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0060	0.0016	1	11/25/19 10:08	11/25/19 17:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0060	0.0015	1	11/25/19 10:08	11/25/19 17:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0060	0.0012	1	11/25/19 10:08	11/25/19 17:43	75-27-4	
Bromoform	ND	mg/kg	0.0060	0.0029	1	11/25/19 10:08	11/25/19 17:43	75-25-2	
Bromomethane	ND	mg/kg	0.012	0.0028	1	11/25/19 10:08	11/25/19 17:43	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.12	0.014	1	11/25/19 10:08	11/25/19 17:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0060	0.0034	1	11/25/19 10:08	11/25/19 17:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0060	0.0025	1	11/25/19 10:08	11/25/19 17:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0060	0.0020	1	11/25/19 10:08	11/25/19 17:43	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0060	0.0012	1	11/25/19 10:08	11/25/19 17:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0060	0.0012	1	11/25/19 10:08	11/25/19 17:43	108-90-7	
Chloroethane	ND	mg/kg	0.012	0.0025	1	11/25/19 10:08	11/25/19 17:43	75-00-3	IK
Chloroform	ND	mg/kg	0.0060	0.0013	1	11/25/19 10:08	11/25/19 17:43	67-66-3	
Chloromethane	ND	mg/kg	0.012	0.0039	1	11/25/19 10:08	11/25/19 17:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0060	0.0018	1	11/25/19 10:08	11/25/19 17:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0060	0.0018	1	11/25/19 10:08	11/25/19 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0060	0.0031	1	11/25/19 10:08	11/25/19 17:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0060	0.0030	1	11/25/19 10:08	11/25/19 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0060	0.0013	1	11/25/19 10:08	11/25/19 17:43	106-93-4	
Dibromomethane	ND	mg/kg	0.0060	0.0018	1	11/25/19 10:08	11/25/19 17:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0060	0.0021	1	11/25/19 10:08	11/25/19 17:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0060	0.0021	1	11/25/19 10:08	11/25/19 17:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0060	0.0021	1	11/25/19 10:08	11/25/19 17:43	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.012	0.0049	1	11/25/19 10:08	11/25/19 17:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0060	0.00088	1	11/25/19 10:08	11/25/19 17:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0060	0.0012	1	11/25/19 10:08	11/25/19 17:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0060	0.0014	1	11/25/19 10:08	11/25/19 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0060	0.0010	1	11/25/19 10:08	11/25/19 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0060	0.0012	1	11/25/19 10:08	11/25/19 17:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0060	0.0023	1	11/25/19 10:08	11/25/19 17:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0060	0.0023	1	11/25/19 10:08	11/25/19 17:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0060	0.00059	1	11/25/19 10:08	11/25/19 17:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0060	0.0025	1	11/25/19 10:08	11/25/19 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0060	0.0027	1	11/25/19 10:08	11/25/19 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0060	0.0011	1	11/25/19 10:08	11/25/19 17:43	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0060	0.0034	1	11/25/19 10:08	11/25/19 17:43	108-20-3	
Ethylbenzene	ND	mg/kg	0.0060	0.0013	1	11/25/19 10:08	11/25/19 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0060	0.0030	1	11/25/19 10:08	11/25/19 17:43	87-68-3	
2-Hexanone	ND	mg/kg	0.060	0.0062	1	11/25/19 10:08	11/25/19 17:43	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0060	0.0017	1	11/25/19 10:08	11/25/19 17:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0060	0.0029	1	11/25/19 10:08	11/25/19 17:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.024	0.0071	1	11/25/19 10:08	11/25/19 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.060	0.0045	1	11/25/19 10:08	11/25/19 17:43	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: SB-3 (17-19)**      **Lab ID: 92454623005**      Collected: 11/20/19 10:05      Received: 11/20/19 10:26      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	0.0060	0.0034	1	11/25/19 10:08	11/25/19 17:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0060	0.0051	1	11/25/19 10:08	11/25/19 17:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0060	0.0020	1	11/25/19 10:08	11/25/19 17:43	103-65-1	
Styrene	ND	mg/kg	0.0060	0.0018	1	11/25/19 10:08	11/25/19 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0060	0.0015	1	11/25/19 10:08	11/25/19 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0060	0.0021	1	11/25/19 10:08	11/25/19 17:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0060	0.0019	1	11/25/19 10:08	11/25/19 17:43	127-18-4	
Toluene	ND	mg/kg	0.0060	0.0019	1	11/25/19 10:08	11/25/19 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0060	0.0043	1	11/25/19 10:08	11/25/19 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0060	0.0032	1	11/25/19 10:08	11/25/19 17:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0060	0.0010	1	11/25/19 10:08	11/25/19 17:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0060	0.0014	1	11/25/19 10:08	11/25/19 17:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0060	0.0016	1	11/25/19 10:08	11/25/19 17:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0060	0.0014	1	11/25/19 10:08	11/25/19 17:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0060	0.0020	1	11/25/19 10:08	11/25/19 17:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0060	0.0023	1	11/25/19 10:08	11/25/19 17:43	95-63-6	v1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0060	0.0020	1	11/25/19 10:08	11/25/19 17:43	108-67-8	
Vinyl acetate	ND	mg/kg	0.060	0.020	1	11/25/19 10:08	11/25/19 17:43	108-05-4	v1
Vinyl chloride	ND	mg/kg	0.012	0.0023	1	11/25/19 10:08	11/25/19 17:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.012	0.0042	1	11/25/19 10:08	11/25/19 17:43	1330-20-7	
m&p-Xylene	ND	mg/kg	0.012	0.0028	1	11/25/19 10:08	11/25/19 17:43	179601-23-1	
o-Xylene	ND	mg/kg	0.0060	0.0014	1	11/25/19 10:08	11/25/19 17:43	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	114	%	70-130		1	11/25/19 10:08	11/25/19 17:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1	11/25/19 10:08	11/25/19 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-132		1	11/25/19 10:08	11/25/19 17:43	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	0.014	0.0042	1	11/25/19 11:52	11/25/19 13:36	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	50-150		1	11/25/19 11:52	11/25/19 13:36	17060-07-0	
Toluene-d8 (S)	105	%	50-150		1	11/25/19 11:52	11/25/19 13:36	2037-26-5	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>28.8</b>	%	0.10	0.10	1		11/21/19 13:25		
<b>Total Solids 2540 G-2011</b> Analytical Method: SM 2540G      Preparation Method: SM 2540 G									
Total Solids	<b>73.3</b>	%			1	01/10/20 14:45	01/10/20 14:55		H3
<b>Wet Chemistry 7199</b> Analytical Method: EPA 7199      Preparation Method: 3060A									
Chromium, Hexavalent	<b>0.870J</b>	mg/kg	1.36	0.348	1	01/10/20 20:50	01/11/20 14:33	18540-29-9	H3,J

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454623

**Sample: Trip Blank**      **Lab ID: 92454623006**      Collected: 11/20/19 00:00      Received: 11/20/19 10:26      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
Acetone	ND	ug/L	25.0	6.2	1		11/25/19 14:40	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		11/25/19 14:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		11/25/19 14:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		11/25/19 14:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		11/25/19 14:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		11/25/19 14:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		11/25/19 14:40	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		11/25/19 14:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		11/25/19 14:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/25/19 14:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		11/25/19 14:40	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		11/25/19 14:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		11/25/19 14:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		11/25/19 14:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		11/25/19 14:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		11/25/19 14:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		11/25/19 14:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		11/25/19 14:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		11/25/19 14:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		11/25/19 14:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		11/25/19 14:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		11/25/19 14:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		11/25/19 14:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		11/25/19 14:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		11/25/19 14:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		11/25/19 14:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		11/25/19 14:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		11/25/19 14:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		11/25/19 14:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		11/25/19 14:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/25/19 14:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		11/25/19 14:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		11/25/19 14:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		11/25/19 14:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		11/25/19 14:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		11/25/19 14:40	100-41-4	
Hexachloro-1,3-butadiene	1.1	ug/L	1.0	0.44	1		11/25/19 14:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		11/25/19 14:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		11/25/19 14:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		11/25/19 14:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		11/25/19 14:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		11/25/19 14:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		11/25/19 14:40	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		11/25/19 14:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		11/25/19 14:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		11/25/19 14:40	79-34-5	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92454623

**Sample: Trip Blank**      **Lab ID: 92454623006**      Collected: 11/20/19 00:00      Received: 11/20/19 10:26      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
Tetrachloroethene	ND	ug/L	1.0	0.16	1		11/25/19 14:40	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		11/25/19 14:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		11/25/19 14:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		11/25/19 14:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		11/25/19 14:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		11/25/19 14:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		11/25/19 14:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		11/25/19 14:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		11/25/19 14:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		11/25/19 14:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		11/25/19 14:40	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		11/25/19 14:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		11/25/19 14:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		11/25/19 14:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/25/19 14:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/25/19 14:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		11/25/19 14:40	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		11/21/19 19:58	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	50-150		1		11/21/19 19:58	17060-07-0	
Toluene-d8 (S)	103	%	50-150		1		11/21/19 19:58	2037-26-5	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 510897 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

METHOD BLANK: 2740675 Matrix: Solid  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	0.0057J	0.0060	0.0030	11/22/19 12:18	BC

LABORATORY CONTROL SAMPLE: 2740676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.081	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2740677 2740678

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92454343006	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/kg	2.4	0.38	0.35	2.4	3.5	15	335	75-125	37	20	M6,R1	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511039 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B Analysis Description: 6010 MET  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

METHOD BLANK: 2741663 Matrix: Solid  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.50	11/23/19 00:14	
Barium	mg/kg	ND	0.50	0.25	11/23/19 00:14	
Cadmium	mg/kg	ND	0.10	0.050	11/23/19 00:14	
Chromium	mg/kg	ND	0.50	0.25	11/23/19 00:14	
Lead	mg/kg	ND	0.50	0.25	11/23/19 00:14	
Selenium	mg/kg	ND	1.0	0.50	11/23/19 00:14	
Silver	mg/kg	ND	0.50	0.25	11/23/19 00:14	

LABORATORY CONTROL SAMPLE: 2741664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.9	96	80-120	
Barium	mg/kg	50	48.5	97	80-120	
Cadmium	mg/kg	50	49.0	98	80-120	
Chromium	mg/kg	50	49.7	99	80-120	
Lead	mg/kg	50	47.5	95	80-120	
Selenium	mg/kg	50	45.9	92	80-120	
Silver	mg/kg	25	23.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741665 2741666

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92454168005 Result	Spike Conc.	Spike Conc.	Result							
Arsenic	mg/kg	1.9	55.6	55.6	52.0	51.1	90	89	75-125	2	20	
Barium	mg/kg	35.0	55.6	55.6	87.9	89.6	95	98	75-125	2	20	
Cadmium	mg/kg	ND	55.6	55.6	53.3	51.5	96	93	75-125	4	20	
Chromium	mg/kg	12.8	55.6	55.6	71.4	73.3	105	109	75-125	3	20	
Lead	mg/kg	6.6	55.6	55.6	58.2	65.4	93	106	75-125	12	20	
Selenium	mg/kg	ND	55.6	55.6	47.7	45.9	85	82	75-125	4	20	
Silver	mg/kg	ND	27.8	27.8	27.0	26.1	97	94	75-125	3	20	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511468 Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics  
Associated Lab Samples: 92454623001, 92454623002, 92454623003

METHOD BLANK: 2743576 Matrix: Solid  
Associated Lab Samples: 92454623001, 92454623002, 92454623003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0012	11/24/19 13:30	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.00087	11/24/19 13:30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	0.0011	11/24/19 13:30	
1,1-Dichloroethane	mg/kg	ND	0.0050	0.00074	11/24/19 13:30	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0012	11/24/19 13:30	
1,1-Dichloropropene	mg/kg	ND	0.0050	0.0021	11/24/19 13:30	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	0.0036	11/24/19 13:30	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	0.0026	11/24/19 13:30	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	0.0020	11/24/19 13:30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0050	0.0025	11/24/19 13:30	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	0.0011	11/24/19 13:30	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/24/19 13:30	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0010	11/24/19 13:30	
1,2-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/24/19 13:30	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/24/19 13:30	
1,3-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/24/19 13:30	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
2,2-Dichloropropane	mg/kg	ND	0.0050	0.00049	11/24/19 13:30	
2-Butanone (MEK)	mg/kg	ND	0.10	0.012	11/24/19 13:30	
2-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/24/19 13:30	
2-Hexanone	mg/kg	ND	0.050	0.0052	11/24/19 13:30	
4-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/24/19 13:30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.050	0.0037	11/24/19 13:30	
Acetone	mg/kg	ND	0.10	0.0094	11/24/19 13:30	
Benzene	mg/kg	ND	0.0050	0.00090	11/24/19 13:30	
Bromobenzene	mg/kg	ND	0.0050	0.0014	11/24/19 13:30	
Bromochloromethane	mg/kg	ND	0.0050	0.0012	11/24/19 13:30	
Bromodichloromethane	mg/kg	ND	0.0050	0.00098	11/24/19 13:30	
Bromoform	mg/kg	ND	0.0050	0.0024	11/24/19 13:30	
Bromomethane	mg/kg	ND	0.010	0.0024	11/24/19 13:30	IH
Carbon tetrachloride	mg/kg	ND	0.0050	0.00096	11/24/19 13:30	
Chlorobenzene	mg/kg	ND	0.0050	0.00097	11/24/19 13:30	
Chloroethane	mg/kg	ND	0.010	0.0021	11/24/19 13:30	
Chloroform	mg/kg	ND	0.0050	0.0011	11/24/19 13:30	
Chloromethane	mg/kg	ND	0.010	0.0033	11/24/19 13:30	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00087	11/24/19 13:30	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	0.0023	11/24/19 13:30	
Dibromochloromethane	mg/kg	ND	0.0050	0.0025	11/24/19 13:30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

METHOD BLANK: 2743576 Matrix: Solid

Associated Lab Samples: 92454623001, 92454623002, 92454623003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0050	0.0015	11/24/19 13:30	
Dichlorodifluoromethane	mg/kg	ND	0.010	0.0041	11/24/19 13:30	
Diisopropyl ether	mg/kg	ND	0.0050	0.0029	11/24/19 13:30	
Ethylbenzene	mg/kg	ND	0.0050	0.0011	11/24/19 13:30	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	0.0025	11/24/19 13:30	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	0.0014	11/24/19 13:30	
m&p-Xylene	mg/kg	ND	0.010	0.0024	11/24/19 13:30	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	0.0029	11/24/19 13:30	
Methylene Chloride	mg/kg	ND	0.020	0.0059	11/24/19 13:30	
n-Butylbenzene	mg/kg	ND	0.0050	0.0028	11/24/19 13:30	
n-Propylbenzene	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
Naphthalene	mg/kg	ND	0.0050	0.0042	11/24/19 13:30	
o-Xylene	mg/kg	ND	0.0050	0.0012	11/24/19 13:30	
p-Isopropyltoluene	mg/kg	ND	0.0050	0.0024	11/24/19 13:30	
sec-Butylbenzene	mg/kg	ND	0.0050	0.0021	11/24/19 13:30	
Styrene	mg/kg	ND	0.0050	0.0015	11/24/19 13:30	
tert-Butylbenzene	mg/kg	ND	0.0050	0.0017	11/24/19 13:30	
Tetrachloroethene	mg/kg	ND	0.0050	0.0016	11/24/19 13:30	
Toluene	mg/kg	ND	0.0050	0.0016	11/24/19 13:30	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00098	11/24/19 13:30	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	0.00088	11/24/19 13:30	
Trichloroethene	mg/kg	ND	0.0050	0.0013	11/24/19 13:30	
Trichlorofluoromethane	mg/kg	ND	0.0050	0.0012	11/24/19 13:30	
Vinyl acetate	mg/kg	ND	0.050	0.016	11/24/19 13:30	IL
Vinyl chloride	mg/kg	ND	0.010	0.0019	11/24/19 13:30	
Xylene (Total)	mg/kg	ND	0.010	0.0035	11/24/19 13:30	
1,2-Dichloroethane-d4 (S)	%	96	70-132		11/24/19 13:30	
4-Bromofluorobenzene (S)	%	102	70-130		11/24/19 13:30	
Toluene-d8 (S)	%	105	70-130		11/24/19 13:30	

LABORATORY CONTROL SAMPLE: 2743577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.051	103	70-130	
1,1,1-Trichloroethane	mg/kg	0.05	0.059	117	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.048	97	55-130	
1,1,2-Trichloroethane	mg/kg	0.05	0.051	102	70-130	
1,1-Dichloroethane	mg/kg	0.05	0.052	104	68-130	
1,1-Dichloroethene	mg/kg	0.05	0.058	116	70-130	
1,1-Dichloropropene	mg/kg	0.05	0.064	129	70-130	
1,2,3-Trichlorobenzene	mg/kg	0.05	0.049	98	70-130	
1,2,3-Trichloropropane	mg/kg	0.05	0.048	96	70-130	
1,2,4-Trichlorobenzene	mg/kg	0.05	0.047	95	70-130	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.049	98	69-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE: 2743577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	0.05	0.050	100	57-141	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.049	98	70-130	
1,2-Dichlorobenzene	mg/kg	0.05	0.049	98	70-130	
1,2-Dichloroethane	mg/kg	0.05	0.047	95	70-130	
1,2-Dichloropropane	mg/kg	0.05	0.053	107	70-130	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.051	103	70-130	
1,3-Dichlorobenzene	mg/kg	0.05	0.049	97	70-130	
1,3-Dichloropropane	mg/kg	0.05	0.052	103	70-130	
1,4-Dichlorobenzene	mg/kg	0.05	0.048	95	70-130	
2,2-Dichloropropane	mg/kg	0.05	0.059	117	70-130	
2-Butanone (MEK)	mg/kg	0.1	0.090J	90	60-130	
2-Chlorotoluene	mg/kg	0.05	0.051	101	70-130	
2-Hexanone	mg/kg	0.1	0.10	103	70-132	
4-Chlorotoluene	mg/kg	0.05	0.050	100	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.1	0.098	98	69-130	
Acetone	mg/kg	0.1	0.097J	97	49-148	
Benzene	mg/kg	0.05	0.054	109	70-130	
Bromobenzene	mg/kg	0.05	0.050	99	70-130	
Bromochloromethane	mg/kg	0.05	0.047	94	70-130	
Bromodichloromethane	mg/kg	0.05	0.050	101	70-130	
Bromoform	mg/kg	0.05	0.050	100	68-136	
Bromomethane	mg/kg	0.05	0.066	132	60-140 IH	
Carbon tetrachloride	mg/kg	0.05	0.062	123	70-130	
Chlorobenzene	mg/kg	0.05	0.050	100	70-130	
Chloroethane	mg/kg	0.05	0.059	118	51-147	
Chloroform	mg/kg	0.05	0.048	97	70-130	
Chloromethane	mg/kg	0.05	0.051	102	48-130	
cis-1,2-Dichloroethene	mg/kg	0.05	0.050	100	70-130	
cis-1,3-Dichloropropene	mg/kg	0.05	0.055	109	70-130	
Dibromochloromethane	mg/kg	0.05	0.051	101	70-130	
Dibromomethane	mg/kg	0.05	0.049	97	70-130	
Dichlorodifluoromethane	mg/kg	0.05	0.055	110	49-130	
Diisopropyl ether	mg/kg	0.05	0.052	103	66-130	
Ethylbenzene	mg/kg	0.05	0.053	106	70-130	
Hexachloro-1,3-butadiene	mg/kg	0.05	0.051	102	70-130	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.054	109	70-130	
m&p-Xylene	mg/kg	0.1	0.10	104	70-130	
Methyl-tert-butyl ether	mg/kg	0.05	0.058	116	70-130	
Methylene Chloride	mg/kg	0.05	0.047	94	50-137	
n-Butylbenzene	mg/kg	0.05	0.052	103	70-130	
n-Propylbenzene	mg/kg	0.05	0.051	102	70-130	
Naphthalene	mg/kg	0.05	0.050	100	70-131	
o-Xylene	mg/kg	0.05	0.052	103	70-130	
p-Isopropyltoluene	mg/kg	0.05	0.052	103	70-130	
sec-Butylbenzene	mg/kg	0.05	0.052	105	70-130	
Styrene	mg/kg	0.05	0.050	100	70-130	
tert-Butylbenzene	mg/kg	0.05	0.043	87	69-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE: 2743577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	0.05	0.054	107	56-130	
Toluene	mg/kg	0.05	0.051	102	70-130	
trans-1,2-Dichloroethene	mg/kg	0.05	0.055	109	70-130	
trans-1,3-Dichloropropene	mg/kg	0.05	0.051	102	70-130	
Trichloroethene	mg/kg	0.05	0.057	115	70-141	
Trichlorofluoromethane	mg/kg	0.05	0.061	122	67-130	
Vinyl acetate	mg/kg	0.1	0.091	91	10-136	IL
Vinyl chloride	mg/kg	0.05	0.064	129	67-130	
Xylene (Total)	mg/kg	0.15	0.16	104	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2743579

Parameter	Units	92454281007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.018	0.014	78	52-133	
1,1,1-Trichloroethane	mg/kg	ND	0.018	0.014	78	49-137	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.018	0.015	84	39-150	
1,1,2-Trichloroethane	mg/kg	ND	0.018	0.016	85	48-140	
1,1-Dichloroethane	mg/kg	ND	0.018	0.014	78	46-135	
1,1-Dichloroethene	mg/kg	ND	0.018	0.016	86	38-149	
1,1-Dichloropropene	mg/kg	ND	0.018	0.015	81	41-140	
1,2,3-Trichlorobenzene	mg/kg	ND	0.018	0.014	79	10-158	
1,2,3-Trichloropropane	mg/kg	ND	0.018	0.016	87	33-157	
1,2,4-Trichlorobenzene	mg/kg	ND	0.018	0.014	79	10-155	
1,2,4-Trimethylbenzene	mg/kg	ND	0.018	0.014	74	24-154	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.018	0.016	90	33-158	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.018	0.015	80	40-136	
1,2-Dichlorobenzene	mg/kg	ND	0.018	0.014	80	27-146	
1,2-Dichloroethane	mg/kg	ND	0.018	0.015	81	49-140	
1,2-Dichloropropane	mg/kg	ND	0.018	0.015	83	44-143	
1,3,5-Trimethylbenzene	mg/kg	ND	0.018	0.014	77	40-144	
1,3-Dichlorobenzene	mg/kg	ND	0.018	0.014	77	33-140	
1,3-Dichloropropane	mg/kg	ND	0.018	0.015	81	47-147	
1,4-Dichlorobenzene	mg/kg	ND	0.018	0.014	79	35-139	
2,2-Dichloropropane	mg/kg	ND	0.018	0.014	77	41-140	
2-Butanone (MEK)	mg/kg	ND	0.036	0.027J	74	10-181	
2-Chlorotoluene	mg/kg	ND	0.018	0.014	78	38-147	
2-Hexanone	mg/kg	ND	0.036	0.034J	93	18-169	
4-Chlorotoluene	mg/kg	ND	0.018	0.015	80	36-145	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.036	0.032J	88	16-175	
Acetone	mg/kg	ND	0.036	0.036J	98	10-200	
Benzene	mg/kg	ND	0.018	0.015	80	46-136	
Bromobenzene	mg/kg	ND	0.018	0.015	80	38-149	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

MATRIX SPIKE SAMPLE: 2743579		92454281007	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	0.018	0.015	81	44-142	
Bromodichloromethane	mg/kg	ND	0.018	0.015	83	41-140	
Bromoform	mg/kg	ND	0.018	0.016	87	34-145	
Bromomethane	mg/kg	ND	0.018	0.020	112	14-162	IH
Carbon tetrachloride	mg/kg	ND	0.018	0.019	102	44-141	
Chlorobenzene	mg/kg	ND	0.018	0.014	80	39-141	
Chloroethane	mg/kg	ND	0.018	0.019	104	10-182	v1
Chloroform	mg/kg	ND	0.018	0.014	77	45-140	
Chloromethane	mg/kg	ND	0.018	0.014	79	19-149	
cis-1,2-Dichloroethene	mg/kg	ND	0.018	0.014	78	38-150	
cis-1,3-Dichloropropene	mg/kg	ND	0.018	0.014	80	30-144	
Dibromochloromethane	mg/kg	ND	0.018	0.014	79	36-145	
Dibromomethane	mg/kg	ND	0.018	0.016	86	41-145	
Dichlorodifluoromethane	mg/kg	ND	0.018	0.013	69	16-146	
Diisopropyl ether	mg/kg	ND	0.018	0.014	77	41-143	
Ethylbenzene	mg/kg	ND	0.018	0.015	83	35-144	
Hexachloro-1,3-butadiene	mg/kg	ND	0.018	0.012	68	10-160	
Isopropylbenzene (Cumene)	mg/kg	ND	0.018	0.015	82	30-152	
m&p-Xylene	mg/kg	ND	0.036	0.029	80	33-145	
Methyl-tert-butyl ether	mg/kg	ND	0.018	0.016	88	49-140	
Methylene Chloride	mg/kg	ND	0.018	0.010J	57	10-174	
n-Butylbenzene	mg/kg	ND	0.018	0.013	74	10-160	
n-Propylbenzene	mg/kg	ND	0.018	0.014	76	24-159	
Naphthalene	mg/kg	ND	0.018	0.016	90	10-171	
o-Xylene	mg/kg	ND	0.018	0.014	79	31-150	
p-Isopropyltoluene	mg/kg	ND	0.018	0.014	75	21-154	
sec-Butylbenzene	mg/kg	ND	0.018	0.014	77	19-159	
Styrene	mg/kg	ND	0.018	0.015	80	15-152	
tert-Butylbenzene	mg/kg	ND	0.018	0.012	65	31-141	
Tetrachloroethene	mg/kg	ND	0.018	0.014	77	19-141	
Toluene	mg/kg	ND	0.018	0.015	80	31-146	
trans-1,2-Dichloroethene	mg/kg	ND	0.018	0.015	84	28-157	
trans-1,3-Dichloropropene	mg/kg	ND	0.018	0.014	79	25-146	
Trichloroethene	mg/kg	ND	0.018	0.014	77	34-149	
Trichlorofluoromethane	mg/kg	ND	0.018	0.016	87	10-167	
Vinyl acetate	mg/kg	ND	0.036	0.024J	65	10-200	IL
Vinyl chloride	mg/kg	ND	0.018	0.016	90	36-155	
Xylene (Total)	mg/kg	ND	0.054	0.044	80	29-148	
1,2-Dichloroethane-d4 (S)	%				100	70-132	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				102	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

SAMPLE DUPLICATE: 2743578

Parameter	Units	92454281006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	IH
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454623

SAMPLE DUPLICATE: 2743578

Parameter	Units	92454281006 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	IL
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	97			
4-Bromofluorobenzene (S)	%	100	104			
Toluene-d8 (S)	%	106	108			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511519 Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics  
Associated Lab Samples: 92454623004, 92454623005

METHOD BLANK: 2743732 Matrix: Solid  
Associated Lab Samples: 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0012	11/25/19 10:54	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.00087	11/25/19 10:54	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	0.0011	11/25/19 10:54	
1,1-Dichloroethane	mg/kg	ND	0.0050	0.00074	11/25/19 10:54	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0012	11/25/19 10:54	
1,1-Dichloropropene	mg/kg	ND	0.0050	0.0021	11/25/19 10:54	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	0.0036	11/25/19 10:54	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	0.0026	11/25/19 10:54	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	0.0020	11/25/19 10:54	v1
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0050	0.0025	11/25/19 10:54	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	0.0011	11/25/19 10:54	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/25/19 10:54	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0010	11/25/19 10:54	
1,2-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/25/19 10:54	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/25/19 10:54	
1,3-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/25/19 10:54	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
2,2-Dichloropropane	mg/kg	ND	0.0050	0.00049	11/25/19 10:54	
2-Butanone (MEK)	mg/kg	ND	0.10	0.012	11/25/19 10:54	
2-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/25/19 10:54	
2-Hexanone	mg/kg	ND	0.050	0.0052	11/25/19 10:54	
4-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/25/19 10:54	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.050	0.0037	11/25/19 10:54	
Acetone	mg/kg	ND	0.10	0.0094	11/25/19 10:54	
Benzene	mg/kg	ND	0.0050	0.00090	11/25/19 10:54	
Bromobenzene	mg/kg	ND	0.0050	0.0014	11/25/19 10:54	
Bromochloromethane	mg/kg	ND	0.0050	0.0012	11/25/19 10:54	
Bromodichloromethane	mg/kg	ND	0.0050	0.00098	11/25/19 10:54	
Bromoform	mg/kg	ND	0.0050	0.0024	11/25/19 10:54	
Bromomethane	mg/kg	ND	0.010	0.0024	11/25/19 10:54	
Carbon tetrachloride	mg/kg	ND	0.0050	0.00096	11/25/19 10:54	
Chlorobenzene	mg/kg	ND	0.0050	0.00097	11/25/19 10:54	
Chloroethane	mg/kg	ND	0.010	0.0021	11/25/19 10:54	IK
Chloroform	mg/kg	ND	0.0050	0.0011	11/25/19 10:54	
Chloromethane	mg/kg	ND	0.010	0.0033	11/25/19 10:54	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00087	11/25/19 10:54	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	0.0023	11/25/19 10:54	
Dibromochloromethane	mg/kg	ND	0.0050	0.0025	11/25/19 10:54	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

METHOD BLANK: 2743732 Matrix: Solid

Associated Lab Samples: 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0050	0.0015	11/25/19 10:54	
Dichlorodifluoromethane	mg/kg	ND	0.010	0.0041	11/25/19 10:54	
Diisopropyl ether	mg/kg	ND	0.0050	0.0029	11/25/19 10:54	
Ethylbenzene	mg/kg	ND	0.0050	0.0011	11/25/19 10:54	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	0.0025	11/25/19 10:54	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	0.0014	11/25/19 10:54	
m&p-Xylene	mg/kg	ND	0.010	0.0024	11/25/19 10:54	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	0.0029	11/25/19 10:54	
Methylene Chloride	mg/kg	ND	0.020	0.0059	11/25/19 10:54	
n-Butylbenzene	mg/kg	ND	0.0050	0.0028	11/25/19 10:54	
n-Propylbenzene	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
Naphthalene	mg/kg	ND	0.0050	0.0042	11/25/19 10:54	
o-Xylene	mg/kg	ND	0.0050	0.0012	11/25/19 10:54	
p-Isopropyltoluene	mg/kg	ND	0.0050	0.0024	11/25/19 10:54	
sec-Butylbenzene	mg/kg	ND	0.0050	0.0021	11/25/19 10:54	
Styrene	mg/kg	ND	0.0050	0.0015	11/25/19 10:54	
tert-Butylbenzene	mg/kg	ND	0.0050	0.0017	11/25/19 10:54	
Tetrachloroethene	mg/kg	ND	0.0050	0.0016	11/25/19 10:54	
Toluene	mg/kg	ND	0.0050	0.0016	11/25/19 10:54	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00098	11/25/19 10:54	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	0.00088	11/25/19 10:54	
Trichloroethene	mg/kg	ND	0.0050	0.0013	11/25/19 10:54	
Trichlorofluoromethane	mg/kg	ND	0.0050	0.0012	11/25/19 10:54	
Vinyl acetate	mg/kg	ND	0.050	0.016	11/25/19 10:54	v1
Vinyl chloride	mg/kg	ND	0.010	0.0019	11/25/19 10:54	
Xylene (Total)	mg/kg	ND	0.010	0.0035	11/25/19 10:54	
1,2-Dichloroethane-d4 (S)	%	80	70-132		11/25/19 10:54	
4-Bromofluorobenzene (S)	%	99	70-130		11/25/19 10:54	
Toluene-d8 (S)	%	114	70-130		11/25/19 10:54	

LABORATORY CONTROL SAMPLE & LCSD: 2743733

Parameter	Units	2743734						Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits		
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.057	0.052	114	103	70-130	10	30
1,1,1-Trichloroethane	mg/kg	0.05	0.052	0.048	103	96	70-130	7	30
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.054	0.052	108	104	55-130	3	30
1,1,2-Trichloroethane	mg/kg	0.05	0.054	0.051	108	102	70-130	6	30
1,1-Dichloroethane	mg/kg	0.05	0.050	0.049	101	98	68-130	3	30
1,1-Dichloroethene	mg/kg	0.05	0.053	0.049	107	98	70-130	8	30
1,1-Dichloropropene	mg/kg	0.05	0.059	0.053	118	105	70-130	11	30
1,2,3-Trichlorobenzene	mg/kg	0.05	0.055	0.050	110	100	70-130	9	30
1,2,3-Trichloropropane	mg/kg	0.05	0.054	0.051	108	102	70-130	5	30
1,2,4-Trichlorobenzene	mg/kg	0.05	0.054	0.050	108	100	70-130	7	30
1,2,4-Trimethylbenzene	mg/kg	0.05	0.059	0.052	118	104	69-130	13	30 v1

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE & LCSD: 2743733		2743734									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2-Dibromo-3-chloropropane	mg/kg	0.05	0.058	0.053	116	106	57-141	9	30		
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.058	0.052	115	105	70-130	10	30		
1,2-Dichlorobenzene	mg/kg	0.05	0.053	0.049	105	98	70-130	7	30		
1,2-Dichloroethane	mg/kg	0.05	0.050	0.047	100	94	70-130	6	30		
1,2-Dichloropropane	mg/kg	0.05	0.056	0.051	111	102	70-130	9	30		
1,3,5-Trimethylbenzene	mg/kg	0.05	0.054	0.049	108	99	70-130	9	30		
1,3-Dichlorobenzene	mg/kg	0.05	0.053	0.050	106	99	70-130	7	30		
1,3-Dichloropropane	mg/kg	0.05	0.058	0.053	116	106	70-130	9	30		
1,4-Dichlorobenzene	mg/kg	0.05	0.053	0.049	106	98	70-130	8	30		
2,2-Dichloropropane	mg/kg	0.05	0.052	0.048	105	97	70-130	8	30		
2-Butanone (MEK)	mg/kg	0.1	0.11	0.11	113	110	60-130	3	30		
2-Chlorotoluene	mg/kg	0.05	0.053	0.049	105	97	70-130	8	30		
2-Hexanone	mg/kg	0.1	0.12	0.11	116	108	70-132	7	30		
4-Chlorotoluene	mg/kg	0.05	0.053	0.049	106	97	70-130	8	30		
4-Methyl-2-pentanone (MIBK)	mg/kg	0.1	0.11	0.10	106	102	69-130	3	30		
Acetone	mg/kg	0.1	0.10	0.097J	101	97	49-148		30		
Benzene	mg/kg	0.05	0.056	0.051	111	102	70-130	9	30		
Bromobenzene	mg/kg	0.05	0.055	0.051	110	101	70-130	9	30		
Bromochloromethane	mg/kg	0.05	0.053	0.052	106	103	70-130	3	30		
Bromodichloromethane	mg/kg	0.05	0.052	0.049	104	98	70-130	6	30		
Bromoform	mg/kg	0.05	0.058	0.054	115	108	68-136	6	30		
Bromomethane	mg/kg	0.05	0.056	0.053	111	106	60-140	5	30		
Carbon tetrachloride	mg/kg	0.05	0.055	0.049	109	98	70-130	10	30		
Chlorobenzene	mg/kg	0.05	0.054	0.049	108	98	70-130	9	30		
Chloroethane	mg/kg	0.05	0.059	0.053	118	106	51-147	11	30 IK		
Chloroform	mg/kg	0.05	0.051	0.048	102	96	70-130	6	30		
Chloromethane	mg/kg	0.05	0.046	0.044	92	87	48-130	5	30		
cis-1,2-Dichloroethene	mg/kg	0.05	0.050	0.047	100	93	70-130	7	30		
cis-1,3-Dichloropropene	mg/kg	0.05	0.056	0.053	112	105	70-130	7	30		
Dibromochloromethane	mg/kg	0.05	0.058	0.053	115	106	70-130	8	30		
Dibromomethane	mg/kg	0.05	0.053	0.050	106	100	70-130	6	30		
Dichlorodifluoromethane	mg/kg	0.05	0.047	0.043	93	87	49-130	7	30		
Diisopropyl ether	mg/kg	0.05	0.058	0.054	117	107	66-130	8	30		
Ethylbenzene	mg/kg	0.05	0.054	0.049	108	97	70-130	11	30		
Hexachloro-1,3-butadiene	mg/kg	0.05	0.054	0.049	108	97	70-130	11	30		
Isopropylbenzene (Cumene)	mg/kg	0.05	0.055	0.049	110	99	70-130	11	30		
m&p-Xylene	mg/kg	0.1	0.11	0.096	109	96	70-130	12	30		
Methyl-tert-butyl ether	mg/kg	0.05	0.058	0.055	117	109	70-130	6	30		
Methylene Chloride	mg/kg	0.05	0.048	0.045	96	89	50-137	7	30		
n-Butylbenzene	mg/kg	0.05	0.052	0.048	103	96	70-130	7	30		
n-Propylbenzene	mg/kg	0.05	0.052	0.048	105	96	70-130	9	30		
Naphthalene	mg/kg	0.05	0.055	0.052	110	103	70-131	7	30		
o-Xylene	mg/kg	0.05	0.054	0.049	109	97	70-130	11	30		
p-Isopropyltoluene	mg/kg	0.05	0.052	0.048	104	96	70-130	8	30		
sec-Butylbenzene	mg/kg	0.05	0.053	0.049	106	98	70-130	8	30		
Styrene	mg/kg	0.05	0.055	0.050	110	99	70-130	10	30		
tert-Butylbenzene	mg/kg	0.05	0.047	0.043	95	87	69-130	8	30		

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454623

Parameter	Units	2743733		2743734			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Tetrachloroethene	mg/kg	0.05	0.057	0.052	115	104	56-130	10	30	
Toluene	mg/kg	0.05	0.050	0.047	101	94	70-130	8	30	
trans-1,2-Dichloroethene	mg/kg	0.05	0.054	0.048	108	96	70-130	12	30	
trans-1,3-Dichloropropene	mg/kg	0.05	0.055	0.051	110	101	70-130	8	30	
Trichloroethene	mg/kg	0.05	0.058	0.053	115	105	70-141	9	30	
Trichlorofluoromethane	mg/kg	0.05	0.054	0.050	108	99	67-130	8	30	
Vinyl acetate	mg/kg	0.1	0.13	0.12	133	120	10-136	10	30	v1
Vinyl chloride	mg/kg	0.05	0.057	0.054	114	108	67-130	6	30	
Xylene (Total)	mg/kg	0.15	0.16	0.14	109	96	70-130	12	30	
1,2-Dichloroethane-d4 (S)	%				94	94	70-132			
4-Bromofluorobenzene (S)	%				99	98	70-130			
Toluene-d8 (S)	%				94	95	70-130			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511601 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Associated Lab Samples: 92454623006

METHOD BLANK: 2744248 Matrix: Water  
Associated Lab Samples: 92454623006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	11/25/19 11:28	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	11/25/19 11:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	11/25/19 11:28	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	11/25/19 11:28	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	11/25/19 11:28	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	11/25/19 11:28	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	11/25/19 11:28	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	11/25/19 11:28	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	11/25/19 11:28	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	11/25/19 11:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	0.26	11/25/19 11:28	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.26	11/25/19 11:28	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	11/25/19 11:28	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	11/25/19 11:28	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	11/25/19 11:28	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	11/25/19 11:28	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	11/25/19 11:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	11/25/19 11:28	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	11/25/19 11:28	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	11/25/19 11:28	
2-Chlorotoluene	ug/L	ND	1.0	0.20	11/25/19 11:28	
2-Hexanone	ug/L	ND	5.0	0.57	11/25/19 11:28	
4-Chlorotoluene	ug/L	ND	1.0	0.20	11/25/19 11:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	11/25/19 11:28	
Acetone	ug/L	ND	25.0	6.2	11/25/19 11:28	
Benzene	ug/L	ND	1.0	0.15	11/25/19 11:28	
Bromobenzene	ug/L	ND	1.0	0.22	11/25/19 11:28	
Bromochloromethane	ug/L	ND	1.0	0.34	11/25/19 11:28	
Bromodichloromethane	ug/L	ND	1.0	0.26	11/25/19 11:28	
Bromoform	ug/L	ND	1.0	0.62	11/25/19 11:28	
Bromomethane	ug/L	ND	2.0	0.62	11/25/19 11:28	v2
Carbon tetrachloride	ug/L	ND	1.0	0.22	11/25/19 11:28	
Chlorobenzene	ug/L	ND	1.0	0.23	11/25/19 11:28	
Chloroethane	ug/L	ND	1.0	0.49	11/25/19 11:28	
Chloroform	ug/L	ND	5.0	2.3	11/25/19 11:28	
Chloromethane	ug/L	ND	1.0	0.39	11/25/19 11:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	11/25/19 11:28	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	11/25/19 11:28	
Dibromochloromethane	ug/L	ND	1.0	0.41	11/25/19 11:28	
Dibromomethane	ug/L	ND	1.0	0.46	11/25/19 11:28	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	11/25/19 11:28	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

METHOD BLANK: 2744248

Matrix: Water

Associated Lab Samples: 92454623006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	11/25/19 11:28	
Ethylbenzene	ug/L	ND	1.0	0.26	11/25/19 11:28	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	11/25/19 11:28	
m&p-Xylene	ug/L	ND	2.0	0.41	11/25/19 11:28	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	11/25/19 11:28	
Methylene Chloride	ug/L	ND	5.0	3.7	11/25/19 11:28	
Naphthalene	ug/L	ND	1.0	0.35	11/25/19 11:28	
o-Xylene	ug/L	ND	1.0	0.22	11/25/19 11:28	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	11/25/19 11:28	
Styrene	ug/L	ND	1.0	0.27	11/25/19 11:28	
Tetrachloroethene	ug/L	ND	1.0	0.16	11/25/19 11:28	
Toluene	ug/L	ND	1.0	0.24	11/25/19 11:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	11/25/19 11:28	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	11/25/19 11:28	
Trichloroethene	ug/L	ND	1.0	0.22	11/25/19 11:28	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	11/25/19 11:28	
Vinyl acetate	ug/L	ND	2.0	1.4	11/25/19 11:28	
Vinyl chloride	ug/L	ND	1.0	0.24	11/25/19 11:28	
Xylene (Total)	ug/L	ND	1.0	0.63	11/25/19 11:28	
1,2-Dichloroethane-d4 (S)	%	103	70-130		11/25/19 11:28	
4-Bromofluorobenzene (S)	%	99	70-130		11/25/19 11:28	
Toluene-d8 (S)	%	99	70-130		11/25/19 11:28	

LABORATORY CONTROL SAMPLE: 2744249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	70-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethene	ug/L	50	45.7	91	70-130	
1,1-Dichloropropene	ug/L	50	49.2	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.3	95	70-130	
1,2,3-Trichloropropane	ug/L	50	52.5	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.2	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	44.2	88	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	
1,3-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-131	
1,4-Dichlorobenzene	ug/L	50	46.7	93	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE: 2744249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.6	95	69-130	
2-Butanone (MEK)	ug/L	100	103	103	64-135	
2-Chlorotoluene	ug/L	50	48.0	96	70-130	
2-Hexanone	ug/L	100	113	113	66-135	
4-Chlorotoluene	ug/L	50	48.4	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-130	
Acetone	ug/L	100	107	107	61-157	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	49.4	99	70-130	
Bromochloromethane	ug/L	50	47.2	94	70-130	
Bromodichloromethane	ug/L	50	48.1	96	70-130	
Bromoform	ug/L	50	51.3	103	70-130	
Bromomethane	ug/L	50	47.1	94	38-130 v3	
Carbon tetrachloride	ug/L	50	48.4	97	70-130	
Chlorobenzene	ug/L	50	47.2	94	70-130	
Chloroethane	ug/L	50	40.4	81	37-142	
Chloroform	ug/L	50	46.3	93	70-130	
Chloromethane	ug/L	50	40.3	81	48-130	
cis-1,2-Dichloroethene	ug/L	50	45.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Dibromochloromethane	ug/L	50	50.9	102	70-130	
Dibromomethane	ug/L	50	47.6	95	70-130	
Dichlorodifluoromethane	ug/L	50	42.9	86	53-134	
Diisopropyl ether	ug/L	50	47.3	95	70-135	
Ethylbenzene	ug/L	50	47.8	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	68-132	
m&p-Xylene	ug/L	100	95.3	95	70-130	
Methyl-tert-butyl ether	ug/L	50	48.1	96	70-130	
Methylene Chloride	ug/L	50	43.0	86	67-132	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	48.9	98	70-131	
p-Isopropyltoluene	ug/L	50	47.0	94	70-130	
Styrene	ug/L	50	49.8	100	70-130	
Tetrachloroethene	ug/L	50	49.3	99	69-130	
Toluene	ug/L	50	45.7	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.4	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	70-130	
Trichloroethene	ug/L	50	46.9	94	70-130	
Trichlorofluoromethane	ug/L	50	44.1	88	63-130	
Vinyl acetate	ug/L	100	97.8	98	55-143	
Vinyl chloride	ug/L	50	48.0	96	70-131	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

MATRIX SPIKE SAMPLE:	2744251	92454676008	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.7	113	73-134	
1,1,1-Trichloroethane	ug/L	ND	20	24.6	123	82-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	23.7	119	70-136	
1,1,2-Trichloroethane	ug/L	ND	20	23.2	116	70-135	
1,1-Dichloroethane	ug/L	ND	20	24.2	121	70-139	
1,1-Dichloroethene	ug/L	0.52J	20	25.2	123	70-154	
1,1-Dichloropropene	ug/L	ND	20	26.2	131	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	20	23.5	118	70-135	
1,2,3-Trichloropropane	ug/L	ND	20	23.9	119	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.7	114	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	22.9	114	65-134	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.8	119	70-137	
1,2-Dichlorobenzene	ug/L	ND	20	21.2	106	70-133	
1,2-Dichloroethane	ug/L	ND	20	23.0	115	70-137	
1,2-Dichloropropane	ug/L	ND	20	23.4	117	70-140	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	70-135	
1,3-Dichloropropane	ug/L	ND	20	24.1	120	70-143	
1,4-Dichlorobenzene	ug/L	ND	20	20.9	104	70-133	
2,2-Dichloropropane	ug/L	ND	20	25.2	126	61-148	
2-Butanone (MEK)	ug/L	ND	40	49.7	124	60-139	
2-Chlorotoluene	ug/L	ND	20	21.4	107	70-144	
2-Hexanone	ug/L	ND	40	56.4	141	65-138 M1	
4-Chlorotoluene	ug/L	ND	20	21.8	109	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	51.4	128	65-135	
Acetone	ug/L	ND	40	52.4	131	60-148	
Benzene	ug/L	ND	20	23.9	120	70-151	
Bromobenzene	ug/L	ND	20	21.6	108	70-136	
Bromochloromethane	ug/L	ND	20	24.3	121	70-141	
Bromodichloromethane	ug/L	ND	20	23.5	118	70-138	
Bromoform	ug/L	ND	20	22.3	111	63-130	
Bromomethane	ug/L	ND	20	28.8	144	15-152	
Carbon tetrachloride	ug/L	ND	20	24.9	125	70-143	
Chlorobenzene	ug/L	ND	20	21.7	109	70-138	
Chloroethane	ug/L	ND	20	22.7	113	52-163	
Chloroform	ug/L	ND	20	24.0	120	70-139	
Chloromethane	ug/L	ND	20	22.2	111	41-139	
cis-1,2-Dichloroethene	ug/L	ND	20	23.8	119	70-141	
cis-1,3-Dichloropropene	ug/L	ND	20	23.9	120	70-137	
Dibromochloromethane	ug/L	ND	20	22.9	115	70-134	
Dibromomethane	ug/L	ND	20	22.9	115	70-138	
Dichlorodifluoromethane	ug/L	ND	20	23.2	116	47-155	
Diisopropyl ether	ug/L	ND	20	23.8	119	63-144	
Ethylbenzene	ug/L	ND	20	22.3	111	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.1	136	65-149	
m&p-Xylene	ug/L	ND	40	44.6	111	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	24.0	120	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.: 92454623

MATRIX SPIKE SAMPLE: 2744251		92454676008	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.4	112	61-148	
o-Xylene	ug/L	ND	20	21.8	109	70-148	
p-Isopropyltoluene	ug/L	ND	20	22.1	111	70-146	
Styrene	ug/L	ND	20	22.4	112	70-135	
Tetrachloroethene	ug/L	0.95J	20	23.1	111	59-143	
Toluene	ug/L	ND	20	22.3	112	59-148	
trans-1,2-Dichloroethene	ug/L	ND	20	24.6	123	70-146	
trans-1,3-Dichloropropene	ug/L	ND	20	24.0	120	70-135	
Trichloroethene	ug/L	ND	20	23.2	116	70-147	
Trichlorofluoromethane	ug/L	ND	20	23.9	120	70-148	
Vinyl acetate	ug/L	ND	40	50.4	126	49-151	
Vinyl chloride	ug/L	ND	20	26.6	133	70-156	
Xylene (Total)	ug/L	ND	60	66.4	111	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2744250

Parameter	Units	92454537001	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.: 92454623

SAMPLE DUPLICATE: 2744250

Parameter	Units	92454537001 Result	Dup Result	RPD	Max 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	
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)	%	105	109			
4-Bromofluorobenzene (S)	%	100	98			
Toluene-d8 (S)	%	97	99			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511059 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92454623006

METHOD BLANK: 2741816 Matrix: Water  
Associated Lab Samples: 92454623006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.2	11/21/19 19:38	
1,2-Dichloroethane-d4 (S)	%	98	50-150		11/21/19 19:38	
Toluene-d8 (S)	%	104	50-150		11/21/19 19:38	

LABORATORY CONTROL SAMPLE: 2741817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.9	105	70-130	
1,2-Dichloroethane-d4 (S)	%			98	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741818 2741819

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92453977019 Result	Spike Conc.	Spike Conc.	MS Result						
1,4-Dioxane (p-Dioxane)	ug/L	2.7	20	20	21.9	20.2	96	88	50-150	8	30
1,2-Dichloroethane-d4 (S)	%						106	109	50-150		30
Toluene-d8 (S)	%						101	102	50-150		30

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511556 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV Soil SIM  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

METHOD BLANK: 2743926 Matrix: Solid  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	0.010	0.0030	11/25/19 11:15	
1,2-Dichloroethane-d4 (S)	%	103	50-150		11/25/19 11:15	
Toluene-d8 (S)	%	99	50-150		11/25/19 11:15	

LABORATORY CONTROL SAMPLE: 2743927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.04	0.040	99	50-150	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE SAMPLE: 2744454

Parameter	Units	92454623002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.0047J	0.045	0.052	104	50-150	
1,2-Dichloroethane-d4 (S)	%				95	50-150	
Toluene-d8 (S)	%				105	50-150	

SAMPLE DUPLICATE: 2744453

Parameter	Units	92454623001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	95		30	
Toluene-d8 (S)	%	100	109		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 511397 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

METHOD BLANK: 2743393 Matrix: Solid  
Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	0.075	11/25/19 19:19	
1,2-Dichlorobenzene	mg/kg	ND	0.33	0.071	11/25/19 19:19	
1,3-Dichlorobenzene	mg/kg	ND	0.33	0.074	11/25/19 19:19	
1,4-Dichlorobenzene	mg/kg	ND	0.33	0.072	11/25/19 19:19	
1-Methylnaphthalene	mg/kg	ND	0.33	0.087	11/25/19 19:19	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	0.33	0.091	11/25/19 19:19	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	0.085	11/25/19 19:19	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	0.082	11/25/19 19:19	
2,4-Dichlorophenol	mg/kg	ND	0.33	0.11	11/25/19 19:19	
2,4-Dimethylphenol	mg/kg	ND	0.33	0.082	11/25/19 19:19	
2,4-Dinitrophenol	mg/kg	ND	1.6	1.0	11/25/19 19:19	
2,4-Dinitrotoluene	mg/kg	ND	0.33	0.087	11/25/19 19:19	
2,6-Dinitrotoluene	mg/kg	ND	0.33	0.086	11/25/19 19:19	
2-Chloronaphthalene	mg/kg	ND	0.33	0.073	11/25/19 19:19	
2-Chlorophenol	mg/kg	ND	0.33	0.076	11/25/19 19:19	
2-Methylnaphthalene	mg/kg	ND	0.33	0.083	11/25/19 19:19	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	0.073	11/25/19 19:19	
2-Nitroaniline	mg/kg	ND	1.6	0.16	11/25/19 19:19	
2-Nitrophenol	mg/kg	ND	0.33	0.10	11/25/19 19:19	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.33	0.082	11/25/19 19:19	
3,3'-Dichlorobenzidine	mg/kg	ND	1.6	0.23	11/25/19 19:19	
3-Nitroaniline	mg/kg	ND	1.6	0.17	11/25/19 19:19	
4,6-Dinitro-2-methylphenol	mg/kg	ND	0.66	0.53	11/25/19 19:19	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	0.086	11/25/19 19:19	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	0.20	11/25/19 19:19	
4-Chloroaniline	mg/kg	ND	1.6	0.20	11/25/19 19:19	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	0.085	11/25/19 19:19	
4-Nitroaniline	mg/kg	ND	0.66	0.16	11/25/19 19:19	
4-Nitrophenol	mg/kg	ND	1.6	0.52	11/25/19 19:19	
Acenaphthene	mg/kg	ND	0.33	0.084	11/25/19 19:19	
Acenaphthylene	mg/kg	ND	0.33	0.078	11/25/19 19:19	
Aniline	mg/kg	ND	0.33	0.074	11/25/19 19:19	
Anthracene	mg/kg	ND	0.33	0.085	11/25/19 19:19	
Benzo(a)anthracene	mg/kg	ND	0.33	0.10	11/25/19 19:19	
Benzo(a)pyrene	mg/kg	ND	0.33	0.14	11/25/19 19:19	
Benzo(b)fluoranthene	mg/kg	ND	0.33	0.13	11/25/19 19:19	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	0.13	11/25/19 19:19	
Benzo(k)fluoranthene	mg/kg	ND	0.33	0.14	11/25/19 19:19	
Benzoic Acid	mg/kg	ND	1.6	0.35	11/25/19 19:19	
Benzyl alcohol	mg/kg	ND	0.66	0.17	11/25/19 19:19	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	0.088	11/25/19 19:19	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

METHOD BLANK: 2743393

Matrix: Solid

Associated Lab Samples: 92454623001, 92454623002, 92454623003, 92454623004, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	0.070	11/25/19 19:19	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	0.11	11/25/19 19:19	
Butylbenzylphthalate	mg/kg	ND	0.33	0.087	11/25/19 19:19	
Chrysene	mg/kg	ND	0.33	0.095	11/25/19 19:19	
Di-n-butylphthalate	mg/kg	ND	0.33	0.081	11/25/19 19:19	
Di-n-octylphthalate	mg/kg	ND	0.33	0.19	11/25/19 19:19	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	0.13	11/25/19 19:19	
Dibenzofuran	mg/kg	ND	0.33	0.082	11/25/19 19:19	
Diethylphthalate	mg/kg	ND	0.33	0.071	11/25/19 19:19	
Dimethylphthalate	mg/kg	ND	0.33	0.074	11/25/19 19:19	
Fluoranthene	mg/kg	ND	0.33	0.099	11/25/19 19:19	
Fluorene	mg/kg	ND	0.33	0.088	11/25/19 19:19	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	0.080	11/25/19 19:19	
Hexachlorobenzene	mg/kg	ND	0.33	0.083	11/25/19 19:19	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	0.13	11/25/19 19:19	
Hexachloroethane	mg/kg	ND	0.33	0.075	11/25/19 19:19	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	0.15	11/25/19 19:19	
Isophorone	mg/kg	ND	0.33	0.071	11/25/19 19:19	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	0.092	11/25/19 19:19	
N-Nitrosodimethylamine	mg/kg	ND	0.33	0.092	11/25/19 19:19	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	0.084	11/25/19 19:19	
Naphthalene	mg/kg	ND	0.33	0.078	11/25/19 19:19	
Nitrobenzene	mg/kg	ND	0.33	0.078	11/25/19 19:19	
Pentachlorophenol	mg/kg	ND	1.6	0.15	11/25/19 19:19	
Phenanthrene	mg/kg	ND	0.33	0.083	11/25/19 19:19	
Phenol	mg/kg	ND	0.33	0.078	11/25/19 19:19	
Pyrene	mg/kg	ND	0.33	0.090	11/25/19 19:19	
Pyridine	mg/kg	ND	0.33	0.083	11/25/19 19:19	
2,4,6-Tribromophenol (S)	%	85	27-110		11/25/19 19:19	
2-Fluorobiphenyl (S)	%	72	30-110		11/25/19 19:19	
2-Fluorophenol (S)	%	67	13-110		11/25/19 19:19	
Nitrobenzene-d5 (S)	%	66	23-110		11/25/19 19:19	
Phenol-d6 (S)	%	67	22-110		11/25/19 19:19	
Terphenyl-d14 (S)	%	77	28-110		11/25/19 19:19	

LABORATORY CONTROL SAMPLE: 2743394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.6	1.2	75	52-130	
1,2-Dichlorobenzene	mg/kg	1.6	1.2	75	51-130	
1,3-Dichlorobenzene	mg/kg	1.6	1.2	76	50-130	
1,4-Dichlorobenzene	mg/kg	1.6	1.2	74	49-130	
1-Methylnaphthalene	mg/kg	1.6	1.2	74	55-130	
2,2'-Oxybis(1-chloropropane)	mg/kg	1.6	1.1	68	30-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE: 2743394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	mg/kg	1.6	1.3	77	55-130	
2,4,6-Trichlorophenol	mg/kg	1.6	1.3	80	57-130	
2,4-Dichlorophenol	mg/kg	1.6	1.2	75	56-130	
2,4-Dimethylphenol	mg/kg	1.6	1.2	73	51-130	
2,4-Dinitrophenol	mg/kg	8.2	5.0	61	27-133	
2,4-Dinitrotoluene	mg/kg	1.6	1.3	79	61-130	
2,6-Dinitrotoluene	mg/kg	1.6	1.3	79	60-130	
2-Chloronaphthalene	mg/kg	1.6	1.3	79	52-130	
2-Chlorophenol	mg/kg	1.6	1.2	75	54-130	
2-Methylnaphthalene	mg/kg	1.6	1.2	75	54-130	
2-Methylphenol(o-Cresol)	mg/kg	1.6	1.2	72	51-130	
2-Nitroaniline	mg/kg	3.3	2.5	77	51-130	
2-Nitrophenol	mg/kg	1.6	1.2	74	49-130	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.6	1.1	70	11-163	
3,3'-Dichlorobenzidine	mg/kg	3.3	2.2	66	10-132	
3-Nitroaniline	mg/kg	3.3	2.2	67	55-130	
4,6-Dinitro-2-methylphenol	mg/kg	3.3	2.5	75	47-142	
4-Bromophenylphenyl ether	mg/kg	1.6	1.3	80	59-130	
4-Chloro-3-methylphenol	mg/kg	3.3	2.4	74	55-130	
4-Chloroaniline	mg/kg	3.3	2.4	72	54-130	
4-Chlorophenylphenyl ether	mg/kg	1.6	1.3	77	58-130	
4-Nitroaniline	mg/kg	3.3	2.3	70	54-130	
4-Nitrophenol	mg/kg	8.2	5.8	71	48-130	
Acenaphthene	mg/kg	1.6	1.3	80	60-130	
Acenaphthylene	mg/kg	1.6	1.4	87	60-130	
Aniline	mg/kg	1.6	1.1	69	43-130	
Anthracene	mg/kg	1.6	1.4	86	63-130	
Benzo(a)anthracene	mg/kg	1.6	1.3	81	59-130	
Benzo(a)pyrene	mg/kg	1.6	1.4	85	57-130	
Benzo(b)fluoranthene	mg/kg	1.6	1.4	84	54-130	
Benzo(g,h,i)perylene	mg/kg	1.6	1.4	86	59-130	
Benzo(k)fluoranthene	mg/kg	1.6	1.4	84	54-130	
Benzoic Acid	mg/kg	8.2	4.8	59	19-130	
Benzyl alcohol	mg/kg	3.3	2.4	74	50-130	
bis(2-Chloroethoxy)methane	mg/kg	1.6	1.2	72	54-130	
bis(2-Chloroethyl) ether	mg/kg	1.6	1.3	77	48-130	
bis(2-Ethylhexyl)phthalate	mg/kg	1.6	1.3	77	45-134	
Butylbenzylphthalate	mg/kg	1.6	1.2	75	46-138	
Chrysene	mg/kg	1.6	1.2	76	58-130	
Di-n-butylphthalate	mg/kg	1.6	1.2	75	60-130	
Di-n-octylphthalate	mg/kg	1.6	1.3	80	53-130	
Dibenz(a,h)anthracene	mg/kg	1.6	1.3	82	59-130	
Dibenzofuran	mg/kg	1.6	1.3	78	60-130	
Diethylphthalate	mg/kg	1.6	1.2	75	60-130	
Dimethylphthalate	mg/kg	1.6	1.3	77	60-130	
Fluoranthene	mg/kg	1.6	1.4	83	65-130	
Fluorene	mg/kg	1.6	1.3	81	63-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454623

LABORATORY CONTROL SAMPLE: 2743394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	1.6	1.2	74	46-130	
Hexachlorobenzene	mg/kg	1.6	1.3	80	58-130	
Hexachlorocyclopentadiene	mg/kg	1.6	1.1	66	23-130	
Hexachloroethane	mg/kg	1.6	1.2	75	47-130	
Indeno(1,2,3-cd)pyrene	mg/kg	1.6	1.4	83	60-130	
Isophorone	mg/kg	1.6	1.1	70	49-130	
N-Nitroso-di-n-propylamine	mg/kg	1.6	1.2	70	47-130	
N-Nitrosodimethylamine	mg/kg	1.6	1.2	73	45-130	
N-Nitrosodiphenylamine	mg/kg	1.6	1.2	75	59-130	
Naphthalene	mg/kg	1.6	1.3	77	55-130	
Nitrobenzene	mg/kg	1.6	1.2	71	49-130	
Pentachlorophenol	mg/kg	3.3	2.7	83	10-132	
Phenanthrene	mg/kg	1.6	1.4	83	62-130	
Phenol	mg/kg	1.6	1.3	81	46-130	
Pyrene	mg/kg	1.6	1.4	83	53-130	
Pyridine	mg/kg	1.6	0.91	56	37-130	
2,4,6-Tribromophenol (S)	%			96	27-110	
2-Fluorobiphenyl (S)	%			80	30-110	
2-Fluorophenol (S)	%			81	13-110	
Nitrobenzene-d5 (S)	%			74	23-110	
Phenol-d6 (S)	%			79	22-110	
Terphenyl-d14 (S)	%			80	28-110	

MATRIX SPIKE SAMPLE: 2743395

Parameter	Units	92454623002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	2	1.1	53	18-130	
1,2-Dichlorobenzene	mg/kg	ND	2	1.1	54	14-130	
1,3-Dichlorobenzene	mg/kg	ND	2	1.1	52	12-130	
1,4-Dichlorobenzene	mg/kg	ND	2	1.1	53	10-130	
1-Methylnaphthalene	mg/kg	ND	2	1.1	55	12-130	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	2	1.2	60	10-130	
2,4,5-Trichlorophenol	mg/kg	ND	2	1.0	51	13-130	
2,4,6-Trichlorophenol	mg/kg	ND	2	1.1	57	17-130	
2,4-Dichlorophenol	mg/kg	ND	2	1.1	53	10-130	
2,4-Dimethylphenol	mg/kg	ND	2	0.98	49	10-130	
2,4-Dinitrophenol	mg/kg	ND	10.1	2.5	25	10-130	
2,4-Dinitrotoluene	mg/kg	ND	2	1.2	60	24-130	
2,6-Dinitrotoluene	mg/kg	ND	2	1.2	62	23-130	
2-Chloronaphthalene	mg/kg	ND	2	1.1	56	19-130	
2-Chlorophenol	mg/kg	ND	2	1.1	53	10-130	
2-Methylnaphthalene	mg/kg	ND	2	1.1	56	18-130	
2-Methylphenol(o-Cresol)	mg/kg	ND	2	1.0	51	10-130	
2-Nitroaniline	mg/kg	ND	4.1	2.8	70	17-130	v1
2-Nitrophenol	mg/kg	ND	2	1.0	51	10-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

MATRIX SPIKE SAMPLE: 2743395		92454623002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	2	1.1	53	10-130	
3,3'-Dichlorobenzidine	mg/kg	ND	4.1	1.7J	41	10-130	
3-Nitroaniline	mg/kg	ND	4.1	2.3	57	24-130	
4,6-Dinitro-2-methylphenol	mg/kg	ND	4.1	1.3	33	10-152	
4-Bromophenylphenyl ether	mg/kg	ND	2	1.1	56	29-130	
4-Chloro-3-methylphenol	mg/kg	ND	4.1	2.4	60	17-130	
4-Chloroaniline	mg/kg	ND	4.1	2.2	55	14-130	
4-Chlorophenylphenyl ether	mg/kg	ND	2	1.2	60	25-130	
4-Nitroaniline	mg/kg	ND	4.1	2.3	58	22-130	
4-Nitrophenol	mg/kg	ND	10.1	5.4	53	10-130	
Acenaphthene	mg/kg	ND	2	1.2	62	20-130	
Acenaphthylene	mg/kg	ND	2	1.3	65	25-130	
Aniline	mg/kg	ND	2	0.41	20	10-130	
Anthracene	mg/kg	ND	2	1.3	65	29-130	
Benzo(a)anthracene	mg/kg	ND	2	1.2	62	19-130	
Benzo(a)pyrene	mg/kg	ND	2	1.2	61	12-130	
Benzo(b)fluoranthene	mg/kg	ND	2	1.2	59	14-130	
Benzo(g,h,i)perylene	mg/kg	ND	2	1.3	64	10-130	
Benzo(k)fluoranthene	mg/kg	ND	2	1.2	58	14-130	
Benzoic Acid	mg/kg	ND	10.1	4.6	45	10-130	
Benzyl alcohol	mg/kg	ND	4.1	2.3	57	13-130	
bis(2-Chloroethoxy)methane	mg/kg	ND	2	1.1	52	16-130	
bis(2-Chloroethyl) ether	mg/kg	ND	2	1.1	55	11-130	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	2	1.5	72	21-130	
Butylbenzylphthalate	mg/kg	ND	2	1.4	70	23-130	
Chrysene	mg/kg	ND	2	1.1	56	22-130	
Di-n-butylphthalate	mg/kg	ND	2	1.3	64	30-130	
Di-n-octylphthalate	mg/kg	ND	2	1.4	70	23-142	
Dibenz(a,h)anthracene	mg/kg	ND	2	1.3	64	10-130	
Dibenzofuran	mg/kg	ND	2	1.2	58	24-130	
Diethylphthalate	mg/kg	ND	2	1.2	60	26-130	
Dimethylphthalate	mg/kg	ND	2	1.2	58	22-130	
Fluoranthene	mg/kg	ND	2	1.2	60	33-130	
Fluorene	mg/kg	ND	2	1.3	64	22-130	
Hexachloro-1,3-butadiene	mg/kg	ND	2	1.0	50	13-130	
Hexachlorobenzene	mg/kg	ND	2	1.1	55	29-130	
Hexachlorocyclopentadiene	mg/kg	ND	2	0.18J	9	10-130	M1,v2
Hexachloroethane	mg/kg	ND	2	1.0	49	10-130	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	2	1.3	64	10-130	
Isophorone	mg/kg	ND	2	1.2	57	13-130	
N-Nitroso-di-n-propylamine	mg/kg	ND	2	1.2	61	12-130	
N-Nitrosodimethylamine	mg/kg	ND	2	1.1	52	11-130	
N-Nitrosodiphenylamine	mg/kg	ND	2	1.2	59	15-130	
Naphthalene	mg/kg	ND	2	1.2	58	15-130	
Nitrobenzene	mg/kg	ND	2	1.2	57	12-130	
Pentachlorophenol	mg/kg	ND	4.1	1.8J	45	10-130	
Phenanthrene	mg/kg	ND	2	1.2	62	27-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

MATRIX SPIKE SAMPLE: 2743395		92454623002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Phenol	mg/kg	ND	2	1.1	53	10-130	
Pyrene	mg/kg	ND	2	1.4	67	19-130	
Pyridine	mg/kg	ND	2	0.40J	20	10-130	
2,4,6-Tribromophenol (S)	%				60	27-110	
2-Fluorobiphenyl (S)	%				60	30-110	
2-Fluorophenol (S)	%				57	13-110	
Nitrobenzene-d5 (S)	%				60	23-110	
Phenol-d6 (S)	%				57	22-110	
Terphenyl-d14 (S)	%				69	28-110	

SAMPLE DUPLICATE: 2743396

Parameter	Units	92454623004	Dup	Max	
		Result	Result	RPD	RPD
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30
1,2-Dichlorobenzene	mg/kg	ND	ND		30
1,3-Dichlorobenzene	mg/kg	ND	ND		30
1,4-Dichlorobenzene	mg/kg	ND	ND		30
1-Methylnaphthalene	mg/kg	ND	ND		30
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	ND		30
2,4,5-Trichlorophenol	mg/kg	ND	ND		30
2,4,6-Trichlorophenol	mg/kg	ND	ND		30
2,4-Dichlorophenol	mg/kg	ND	ND		30
2,4-Dimethylphenol	mg/kg	ND	ND		30
2,4-Dinitrophenol	mg/kg	ND	ND		30
2,4-Dinitrotoluene	mg/kg	ND	ND		30
2,6-Dinitrotoluene	mg/kg	ND	ND		30
2-Chloronaphthalene	mg/kg	ND	ND		30
2-Chlorophenol	mg/kg	ND	ND		30
2-Methylnaphthalene	mg/kg	ND	ND		30
2-Methylphenol(o-Cresol)	mg/kg	ND	ND		30
2-Nitroaniline	mg/kg	ND	ND		30 v1
2-Nitrophenol	mg/kg	ND	ND		30
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	ND		30
3,3'-Dichlorobenzidine	mg/kg	ND	ND		30
3-Nitroaniline	mg/kg	ND	ND		30
4,6-Dinitro-2-methylphenol	mg/kg	ND	ND		30
4-Bromophenylphenyl ether	mg/kg	ND	ND		30
4-Chloro-3-methylphenol	mg/kg	ND	ND		30
4-Chloroaniline	mg/kg	ND	ND		30
4-Chlorophenylphenyl ether	mg/kg	ND	ND		30
4-Nitroaniline	mg/kg	ND	ND		30
4-Nitrophenol	mg/kg	ND	ND		30
Acenaphthene	mg/kg	ND	ND		30
Acenaphthylene	mg/kg	ND	ND		30
Aniline	mg/kg	ND	ND		30

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

SAMPLE DUPLICATE: 2743396

Parameter	Units	92454623004 Result	Dup Result	RPD	Max RPD	Qualifiers
Anthracene	mg/kg	ND	ND		30	
Benzo(a)anthracene	mg/kg	ND	ND		30	
Benzo(a)pyrene	mg/kg	ND	ND		30	
Benzo(b)fluoranthene	mg/kg	ND	ND		30	
Benzo(g,h,i)perylene	mg/kg	ND	ND		30	
Benzo(k)fluoranthene	mg/kg	ND	ND		30	
Benzoic Acid	mg/kg	ND	ND		30	
Benzyl alcohol	mg/kg	ND	ND		30	
bis(2-Chloroethoxy)methane	mg/kg	ND	ND		30	
bis(2-Chloroethyl) ether	mg/kg	ND	ND		30	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	ND		30	
Butylbenzylphthalate	mg/kg	ND	ND		30	
Chrysene	mg/kg	ND	ND		30	
Di-n-butylphthalate	mg/kg	ND	ND		30	
Di-n-octylphthalate	mg/kg	ND	ND		30	
Dibenz(a,h)anthracene	mg/kg	ND	ND		30	
Dibenzofuran	mg/kg	ND	ND		30	
Diethylphthalate	mg/kg	ND	ND		30	
Dimethylphthalate	mg/kg	ND	ND		30	
Fluoranthene	mg/kg	ND	ND		30	
Fluorene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Hexachlorobenzene	mg/kg	ND	ND		30	
Hexachlorocyclopentadiene	mg/kg	ND	ND		30 v2	
Hexachloroethane	mg/kg	ND	ND		30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND		30	
Isophorone	mg/kg	ND	ND		30	
N-Nitroso-di-n-propylamine	mg/kg	ND	ND		30	
N-Nitrosodimethylamine	mg/kg	ND	ND		30	
N-Nitrosodiphenylamine	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
Nitrobenzene	mg/kg	ND	ND		30	
Pentachlorophenol	mg/kg	ND	ND		30	
Phenanthrene	mg/kg	ND	ND		30	
Phenol	mg/kg	ND	ND		30	
Pyrene	mg/kg	ND	ND		30	
Pyridine	mg/kg	ND	ND		30	
2,4,6-Tribromophenol (S)	%	55	47			
2-Fluorobiphenyl (S)	%	67	59			
2-Fluorophenol (S)	%	58	50			
Nitrobenzene-d5 (S)	%	69	60			
Phenol-d6 (S)	%	65	55			
Terphenyl-d14 (S)	%	77	69			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 1408861 Analysis Method: SM 2540G  
QC Batch Method: SM 2540 G Analysis Description: Total Solids 2540 G-2011  
Associated Lab Samples: 92454623003, 92454623005

METHOD BLANK: R3490112-1 Matrix: Solid  
Associated Lab Samples: 92454623003, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			01/10/20 14:55	

LABORATORY CONTROL SAMPLE: R3490112-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3490112-3

Parameter	Units	L1177618-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	82.0	81.3	0.832	10	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454623

QC Batch: 1408881 Analysis Method: EPA 7199  
QC Batch Method: 3060A Analysis Description: Wet Chemistry 7199  
Associated Lab Samples: 92454623003, 92454623005

METHOD BLANK: R3490056-1 Matrix: Solid  
Associated Lab Samples: 92454623003, 92454623005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	0.255	01/11/20 12:50	

LABORATORY CONTROL SAMPLE: R3490056-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	10.2	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3490056-4 R3490056-5

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		L1177018-01 Result	Spike Conc.	Spike Conc.	Result						
Chromium, Hexavalent	mg/kg	0.726	29.6	29.6	29.8	29.1	98.4	95.8	75.0-125	2.56	20

MATRIX SPIKE SAMPLE: R3490056-6

Parameter	Units	L1177018-01 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	0.726	1570	745	47.5	75.0-125	ML

SAMPLE DUPLICATE: R3490056-3

Parameter	Units	L1176980-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	20	

SAMPLE DUPLICATE: R3490056-8

Parameter	Units	92454623005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	0.870	0.850J	2.29	20 J	

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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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92454623

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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

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

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

IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: ROW-603

Pace Project No.: 92454623

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### ANALYTE QUALIFIERS

- ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- R1 RPD value was outside control limits.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v2 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.
- v3 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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603  
Pace Project No.: 92454623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92454623001	SB-1 (15-16.5)	EPA 3050B	511039	EPA 6010D	511120
92454623002	SB-2 (15-17)	EPA 3050B	511039	EPA 6010D	511120
92454623003	SB-2 (22-24)	EPA 3050B	511039	EPA 6010D	511120
92454623004	SB-3 (15-17)	EPA 3050B	511039	EPA 6010D	511120
92454623005	SB-3 (17-19)	EPA 3050B	511039	EPA 6010D	511120
92454623001	SB-1 (15-16.5)	EPA 7471B	510897	EPA 7471B	511054
92454623002	SB-2 (15-17)	EPA 7471B	510897	EPA 7471B	511054
92454623003	SB-2 (22-24)	EPA 7471B	510897	EPA 7471B	511054
92454623004	SB-3 (15-17)	EPA 7471B	510897	EPA 7471B	511054
92454623005	SB-3 (17-19)	EPA 7471B	510897	EPA 7471B	511054
92454623001	SB-1 (15-16.5)	EPA 3546	511397	EPA 8270E	511592
92454623002	SB-2 (15-17)	EPA 3546	511397	EPA 8270E	511592
92454623003	SB-2 (22-24)	EPA 3546	511397	EPA 8270E	511592
92454623004	SB-3 (15-17)	EPA 3546	511397	EPA 8270E	511592
92454623005	SB-3 (17-19)	EPA 3546	511397	EPA 8270E	511592
92454623001	SB-1 (15-16.5)	EPA 5035A	511468	EPA 8260D	511475
92454623002	SB-2 (15-17)	EPA 5035A	511468	EPA 8260D	511475
92454623003	SB-2 (22-24)	EPA 5035A	511468	EPA 8260D	511475
92454623004	SB-3 (15-17)	EPA 5035A	511519	EPA 8260D	511533
92454623005	SB-3 (17-19)	EPA 5035A	511519	EPA 8260D	511533
92454623006	Trip Blank	EPA 8260D	511601		
92454623006	Trip Blank	EPA 8260D Mod.	511059		
92454623001	SB-1 (15-16.5)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454623002	SB-2 (15-17)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454623003	SB-2 (22-24)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454623004	SB-3 (15-17)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454623005	SB-3 (17-19)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454623001	SB-1 (15-16.5)	ASTM D2974-87	510962		
92454623002	SB-2 (15-17)	ASTM D2974-87	510962		
92454623003	SB-2 (22-24)	ASTM D2974-87	510962		
92454623004	SB-3 (15-17)	ASTM D2974-87	510962		
92454623005	SB-3 (17-19)	ASTM D2974-87	510962		
92454623003	SB-2 (22-24)	SM 2540 G	1408861	SM 2540G	1408861
92454623005	SB-3 (17-19)	SM 2540 G	1408861	SM 2540G	1408861
92454623003	SB-2 (22-24)	3060A	1408881	EPA 7199	1408881
92454623005	SB-3 (17-19)	3060A	1408881	EPA 7199	1408881

### REPORT OF LABORATORY ANALYSIS

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: Herb & Hiepmen

Project #:

WO#: **92454623**



92454623

Date/Initials Person Examining Contents: YCO 11/20/19

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

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 92T058 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 1.6, 1.4 Correction Factor: Add/Subtract (°C) 0.0°C

Cooler Temp Corrected (°C): 1.6, 1.4

Biological Tissue Frozen?

Yes  No  N/A

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 checked="" type="checkbox"/> No <input 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>SI</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

RCRA metals report by GC10/7471

Person contacted: David Cochran

Date/Time: 11/21/19

Project Manager SCURF Review: Joy

Date: 11/21/19

Project Manager SRF Review: Joy

Date: 11/21/19

**\*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# : 92454623**

PM: KRG

Due Date: 11/27/19

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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	12	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	12	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	12	/	/	/	/	/	/	/	/
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5	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	12	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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.







December 04, 2019

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

RE: Project: ROW-603  
Pace Project No.: 92454745

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 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,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ROW-603

Pace Project No.: 92454745

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### **Pace Analytical Services Charlotte**

9800 Kinsey 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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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92454745

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92454745001	SB-4 (15-17)	Solid	11/20/19 13:30	11/21/19 10:37
92454745002	SB-4 (19-21)	Solid	11/20/19 13:50	11/21/19 10:37
92454745003	SB-5 (15-17)	Solid	11/20/19 14:15	11/21/19 10:37
92454745004	SB-5 (19-21)	Solid	11/20/19 14:50	11/21/19 10:37
92454745005	DUP-1-SOIL	Solid	11/20/19 00:00	11/21/19 10:37
92454745006	TRIP BLANK	Water	11/20/19 00:00	11/21/19 10:37
92454745007	IDW SOIL	Solid	11/21/19 10:15	11/21/19 10:37

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: ROW-603  
Pace Project No.: 92454745

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92454745001	SB-4 (15-17)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454745002	SB-4 (19-21)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454745003	SB-5 (15-17)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454745004	SB-5 (19-21)	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454745005	DUP-1-SOIL	EPA 6010D	SH1	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92454745006	TRIP BLANK	EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (15-17)**      **Lab ID: 92454745001**      Collected: 11/20/19 13:30      Received: 11/21/19 10:37      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>6010 MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	1.1	0.53	1	11/25/19 12:16	11/26/19 19:14	7440-38-2	
Barium	<b>366</b>	mg/kg	0.53	0.26	1	11/25/19 12:16	11/26/19 19:14	7440-39-3	M1
Cadmium	<b>0.073J</b>	mg/kg	0.11	0.053	1	11/25/19 12:16	11/26/19 19:14	7440-43-9	
Chromium	<b>14.5</b>	mg/kg	0.53	0.26	1	11/25/19 12:16	11/26/19 19:14	7440-47-3	
Lead	<b>1.3</b>	mg/kg	0.53	0.26	1	11/25/19 12:16	11/26/19 19:14	7439-92-1	
Selenium	ND	mg/kg	1.1	0.53	1	11/25/19 12:16	11/26/19 19:14	7782-49-2	
Silver	ND	mg/kg	0.53	0.26	1	11/25/19 12:16	11/26/19 19:14	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.0034	0.0017	1	11/22/19 11:50	11/22/19 15:24	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.39	0.099	1	11/26/19 10:11	11/27/19 10:26	83-32-9	
Acenaphthylene	ND	mg/kg	0.39	0.091	1	11/26/19 10:11	11/27/19 10:26	208-96-8	
Aniline	ND	mg/kg	0.39	0.087	1	11/26/19 10:11	11/27/19 10:26	62-53-3	
Anthracene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.39	0.12	1	11/26/19 10:11	11/27/19 10:26	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.39	0.17	1	11/26/19 10:11	11/27/19 10:26	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.39	0.16	1	11/26/19 10:11	11/27/19 10:26	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.39	0.15	1	11/26/19 10:11	11/27/19 10:26	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.39	0.16	1	11/26/19 10:11	11/27/19 10:26	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.42	1	11/26/19 10:11	11/27/19 10:26	65-85-0	
Benzyl alcohol	ND	mg/kg	0.77	0.20	1	11/26/19 10:11	11/27/19 10:26	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.77	0.23	1	11/26/19 10:11	11/27/19 10:26	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.24	1	11/26/19 10:11	11/27/19 10:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.39	0.082	1	11/26/19 10:11	11/27/19 10:26	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.39	0.086	1	11/26/19 10:11	11/27/19 10:26	91-58-7	
2-Chlorophenol	ND	mg/kg	0.39	0.090	1	11/26/19 10:11	11/27/19 10:26	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	7005-72-3	
Chrysene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 10:26	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.39	0.15	1	11/26/19 10:11	11/27/19 10:26	53-70-3	
Dibenzofuran	ND	mg/kg	0.39	0.096	1	11/26/19 10:11	11/27/19 10:26	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.39	0.083	1	11/26/19 10:11	11/27/19 10:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.39	0.087	1	11/26/19 10:11	11/27/19 10:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.39	0.085	1	11/26/19 10:11	11/27/19 10:26	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.27	1	11/26/19 10:11	11/27/19 10:26	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.39	0.13	1	11/26/19 10:11	11/27/19 10:26	120-83-2	
Diethylphthalate	ND	mg/kg	0.39	0.084	1	11/26/19 10:11	11/27/19 10:26	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.39	0.096	1	11/26/19 10:11	11/27/19 10:26	105-67-9	
Dimethylphthalate	ND	mg/kg	0.39	0.087	1	11/26/19 10:11	11/27/19 10:26	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.39	0.095	1	11/26/19 10:11	11/27/19 10:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.77	0.62	1	11/26/19 10:11	11/27/19 10:26	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (15-17)**      **Lab ID: 92454745001**      Collected: 11/20/19 13:30      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	mg/kg	1.9	1.2	1	11/26/19 10:11	11/27/19 10:26	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.39	0.22	1	11/26/19 10:11	11/27/19 10:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.39	0.13	1	11/26/19 10:11	11/27/19 10:26	117-81-7	
Fluoranthene	ND	mg/kg	0.39	0.12	1	11/26/19 10:11	11/27/19 10:26	206-44-0	
Fluorene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.39	0.094	1	11/26/19 10:11	11/27/19 10:26	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.39	0.098	1	11/26/19 10:11	11/27/19 10:26	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.39	0.15	1	11/26/19 10:11	11/27/19 10:26	77-47-4	
Hexachloroethane	ND	mg/kg	0.39	0.088	1	11/26/19 10:11	11/27/19 10:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.39	0.18	1	11/26/19 10:11	11/27/19 10:26	193-39-5	
Isophorone	ND	mg/kg	0.39	0.084	1	11/26/19 10:11	11/27/19 10:26	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.39	0.098	1	11/26/19 10:11	11/27/19 10:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.39	0.085	1	11/26/19 10:11	11/27/19 10:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.39	0.097	1	11/26/19 10:11	11/27/19 10:26	15831-10-4	
Naphthalene	ND	mg/kg	0.39	0.092	1	11/26/19 10:11	11/27/19 10:26	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.19	1	11/26/19 10:11	11/27/19 10:26	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.20	1	11/26/19 10:11	11/27/19 10:26	99-09-2	
4-Nitroaniline	ND	mg/kg	0.77	0.19	1	11/26/19 10:11	11/27/19 10:26	100-01-6	
Nitrobenzene	ND	mg/kg	0.39	0.092	1	11/26/19 10:11	11/27/19 10:26	98-95-3	
2-Nitrophenol	ND	mg/kg	0.39	0.12	1	11/26/19 10:11	11/27/19 10:26	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.61	1	11/26/19 10:11	11/27/19 10:26	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 10:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 10:26	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.39	0.098	1	11/26/19 10:11	11/27/19 10:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 10:26	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.18	1	11/26/19 10:11	11/27/19 10:26	87-86-5	
Phenanthrene	ND	mg/kg	0.39	0.097	1	11/26/19 10:11	11/27/19 10:26	85-01-8	
Phenol	ND	mg/kg	0.39	0.092	1	11/26/19 10:11	11/27/19 10:26	108-95-2	
Pyrene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 10:26	129-00-0	
Pyridine	ND	mg/kg	0.39	0.098	1	11/26/19 10:11	11/27/19 10:26	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.39	0.088	1	11/26/19 10:11	11/27/19 10:26	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 10:26	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.39	0.097	1	11/26/19 10:11	11/27/19 10:26	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	62	%	23-110		1	11/26/19 10:11	11/27/19 10:26	4165-60-0	
2-Fluorobiphenyl (S)	61	%	30-110		1	11/26/19 10:11	11/27/19 10:26	321-60-8	
Terphenyl-d14 (S)	64	%	28-110		1	11/26/19 10:11	11/27/19 10:26	1718-51-0	
Phenol-d6 (S)	58	%	22-110		1	11/26/19 10:11	11/27/19 10:26	13127-88-3	
2-Fluorophenol (S)	59	%	13-110		1	11/26/19 10:11	11/27/19 10:26	367-12-4	
2,4,6-Tribromophenol (S)	67	%	27-110		1	11/26/19 10:11	11/27/19 10:26	118-79-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (15-17)**      **Lab ID: 92454745001**      Collected: 11/20/19 13:30      Received: 11/21/19 10:37      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	ND	mg/kg	0.091	0.0086	1	11/27/19 12:21	11/27/19 15:18	67-64-1	
Benzene	ND	mg/kg	0.0046	0.00082	1	11/27/19 12:21	11/27/19 15:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	0.0012	1	11/27/19 12:21	11/27/19 15:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	0.0011	1	11/27/19 12:21	11/27/19 15:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	0.00089	1	11/27/19 12:21	11/27/19 15:18	75-27-4	
Bromoform	ND	mg/kg	0.0046	0.0022	1	11/27/19 12:21	11/27/19 15:18	75-25-2	
Bromomethane	ND	mg/kg	0.0091	0.0022	1	11/27/19 12:21	11/27/19 15:18	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.091	0.011	1	11/27/19 12:21	11/27/19 15:18	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	0.0026	1	11/27/19 12:21	11/27/19 15:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	0.0019	1	11/27/19 12:21	11/27/19 15:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	0.0015	1	11/27/19 12:21	11/27/19 15:18	98-06-6	v2
Carbon tetrachloride	ND	mg/kg	0.0046	0.00087	1	11/27/19 12:21	11/27/19 15:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	0.00088	1	11/27/19 12:21	11/27/19 15:18	108-90-7	
Chloroethane	ND	mg/kg	0.0091	0.0019	1	11/27/19 12:21	11/27/19 15:18	75-00-3	IK
Chloroform	ND	mg/kg	0.0046	0.00097	1	11/27/19 12:21	11/27/19 15:18	67-66-3	
Chloromethane	ND	mg/kg	0.0091	0.0030	1	11/27/19 12:21	11/27/19 15:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	0.0014	1	11/27/19 12:21	11/27/19 15:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	0.0014	1	11/27/19 12:21	11/27/19 15:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0046	0.0023	1	11/27/19 12:21	11/27/19 15:18	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0046	0.0023	1	11/27/19 12:21	11/27/19 15:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	0.0010	1	11/27/19 12:21	11/27/19 15:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	0.0014	1	11/27/19 12:21	11/27/19 15:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1	11/27/19 12:21	11/27/19 15:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1	11/27/19 12:21	11/27/19 15:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1	11/27/19 12:21	11/27/19 15:18	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0091	0.0038	1	11/27/19 12:21	11/27/19 15:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	0.00067	1	11/27/19 12:21	11/27/19 15:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	0.00091	1	11/27/19 12:21	11/27/19 15:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	0.0011	1	11/27/19 12:21	11/27/19 15:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	0.00079	1	11/27/19 12:21	11/27/19 15:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	0.00090	1	11/27/19 12:21	11/27/19 15:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	0.0017	1	11/27/19 12:21	11/27/19 15:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	0.0017	1	11/27/19 12:21	11/27/19 15:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	0.00045	1	11/27/19 12:21	11/27/19 15:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	0.0019	1	11/27/19 12:21	11/27/19 15:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0021	1	11/27/19 12:21	11/27/19 15:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	0.00080	1	11/27/19 12:21	11/27/19 15:18	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0046	0.0026	1	11/27/19 12:21	11/27/19 15:18	108-20-3	
Ethylbenzene	ND	mg/kg	0.0046	0.00097	1	11/27/19 12:21	11/27/19 15:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	0.0023	1	11/27/19 12:21	11/27/19 15:18	87-68-3	
2-Hexanone	ND	mg/kg	0.046	0.0047	1	11/27/19 12:21	11/27/19 15:18	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	0.0013	1	11/27/19 12:21	11/27/19 15:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	0.0022	1	11/27/19 12:21	11/27/19 15:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	0.0054	1	11/27/19 12:21	11/27/19 15:18	75-09-2	IH,v1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.046	0.0034	1	11/27/19 12:21	11/27/19 15:18	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (15-17)**      **Lab ID: 92454745001**      Collected: 11/20/19 13:30      Received: 11/21/19 10:37      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	0.0026	1	11/27/19 12:21	11/27/19 15:18	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	0.0039	1	11/27/19 12:21	11/27/19 15:18	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0046	0.0015	1	11/27/19 12:21	11/27/19 15:18	103-65-1	
Styrene	ND	mg/kg	0.0046	0.0014	1	11/27/19 12:21	11/27/19 15:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0011	1	11/27/19 12:21	11/27/19 15:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0016	1	11/27/19 12:21	11/27/19 15:18	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	0.0014	1	11/27/19 12:21	11/27/19 15:18	127-18-4	
Toluene	ND	mg/kg	0.0046	0.0015	1	11/27/19 12:21	11/27/19 15:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	0.0033	1	11/27/19 12:21	11/27/19 15:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	0.0024	1	11/27/19 12:21	11/27/19 15:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	0.00079	1	11/27/19 12:21	11/27/19 15:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	0.0010	1	11/27/19 12:21	11/27/19 15:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	0.0012	1	11/27/19 12:21	11/27/19 15:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	0.0011	1	11/27/19 12:21	11/27/19 15:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	0.0015	1	11/27/19 12:21	11/27/19 15:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	0.0018	1	11/27/19 12:21	11/27/19 15:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	0.0015	1	11/27/19 12:21	11/27/19 15:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.046	0.015	1	11/27/19 12:21	11/27/19 15:18	108-05-4	
Vinyl chloride	ND	mg/kg	0.0091	0.0017	1	11/27/19 12:21	11/27/19 15:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.0091	0.0032	1	11/27/19 12:21	11/27/19 15:18	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0091	0.0022	1	11/27/19 12:21	11/27/19 15:18	179601-23-1	
o-Xylene	ND	mg/kg	0.0046	0.0011	1	11/27/19 12:21	11/27/19 15:18	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	105	%	70-130		1	11/27/19 12:21	11/27/19 15:18	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1	11/27/19 12:21	11/27/19 15:18	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-132		1	11/27/19 12:21	11/27/19 15:18	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	11/25/19 11:52	11/25/19 13:57	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1	11/25/19 11:52	11/25/19 13:57	17060-07-0	
Toluene-d8 (S)	105	%	50-150		1	11/25/19 11:52	11/25/19 13:57	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>13.8</b>	%	0.10	0.10	1		11/22/19 13:28		

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (19-21)**      **Lab ID: 92454745002**      Collected: 11/20/19 13:50      Received: 11/21/19 10:37      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>6010 MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	0.87	0.43	1	11/25/19 12:16	11/26/19 19:26	7440-38-2	
Barium	<b>319</b>	mg/kg	0.43	0.22	1	11/25/19 12:16	11/26/19 19:26	7440-39-3	
Cadmium	<b>0.069J</b>	mg/kg	0.087	0.043	1	11/25/19 12:16	11/26/19 19:26	7440-43-9	
Chromium	<b>19.6</b>	mg/kg	0.43	0.22	1	11/25/19 12:16	11/26/19 19:26	7440-47-3	
Lead	<b>1.5</b>	mg/kg	0.43	0.22	1	11/25/19 12:16	11/26/19 19:26	7439-92-1	
Selenium	<b>0.64J</b>	mg/kg	0.87	0.43	1	11/25/19 12:16	11/26/19 19:26	7782-49-2	B
Silver	ND	mg/kg	0.43	0.22	1	11/25/19 12:16	11/26/19 19:26	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.0022	0.0011	1	11/22/19 11:50	11/22/19 15:27	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	83-32-9	
Acenaphthylene	ND	mg/kg	0.39	0.093	1	11/26/19 10:11	11/27/19 11:01	208-96-8	
Aniline	ND	mg/kg	0.39	0.089	1	11/26/19 10:11	11/27/19 11:01	62-53-3	
Anthracene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.39	0.13	1	11/26/19 10:11	11/27/19 11:01	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.39	0.17	1	11/26/19 10:11	11/27/19 11:01	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.39	0.16	1	11/26/19 10:11	11/27/19 11:01	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.39	0.15	1	11/26/19 10:11	11/27/19 11:01	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.39	0.17	1	11/26/19 10:11	11/27/19 11:01	207-08-9	
Benzoic Acid	ND	mg/kg	2.0	0.43	1	11/26/19 10:11	11/27/19 11:01	65-85-0	
Benzyl alcohol	ND	mg/kg	0.79	0.21	1	11/26/19 10:11	11/27/19 11:01	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.79	0.24	1	11/26/19 10:11	11/27/19 11:01	59-50-7	
4-Chloroaniline	ND	mg/kg	2.0	0.24	1	11/26/19 10:11	11/27/19 11:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.39	0.084	1	11/26/19 10:11	11/27/19 11:01	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.39	0.088	1	11/26/19 10:11	11/27/19 11:01	91-58-7	
2-Chlorophenol	ND	mg/kg	0.39	0.092	1	11/26/19 10:11	11/27/19 11:01	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	7005-72-3	
Chrysene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.39	0.16	1	11/26/19 10:11	11/27/19 11:01	53-70-3	
Dibenzofuran	ND	mg/kg	0.39	0.099	1	11/26/19 10:11	11/27/19 11:01	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.39	0.085	1	11/26/19 10:11	11/27/19 11:01	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.39	0.089	1	11/26/19 10:11	11/27/19 11:01	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.39	0.087	1	11/26/19 10:11	11/27/19 11:01	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.0	0.27	1	11/26/19 10:11	11/27/19 11:01	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.39	0.13	1	11/26/19 10:11	11/27/19 11:01	120-83-2	
Diethylphthalate	ND	mg/kg	0.39	0.086	1	11/26/19 10:11	11/27/19 11:01	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.39	0.098	1	11/26/19 10:11	11/27/19 11:01	105-67-9	
Dimethylphthalate	ND	mg/kg	0.39	0.089	1	11/26/19 10:11	11/27/19 11:01	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.39	0.097	1	11/26/19 10:11	11/27/19 11:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.79	0.64	1	11/26/19 10:11	11/27/19 11:01	534-52-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92454745

**Sample: SB-4 (19-21)**      **Lab ID: 92454745002**      Collected: 11/20/19 13:50      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.0	1.3	1	11/26/19 10:11	11/27/19 11:01	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.39	0.22	1	11/26/19 10:11	11/27/19 11:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.39	0.13	1	11/26/19 10:11	11/27/19 11:01	117-81-7	
Fluoranthene	ND	mg/kg	0.39	0.12	1	11/26/19 10:11	11/27/19 11:01	206-44-0	
Fluorene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.39	0.096	1	11/26/19 10:11	11/27/19 11:01	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.39	0.16	1	11/26/19 10:11	11/27/19 11:01	77-47-4	
Hexachloroethane	ND	mg/kg	0.39	0.090	1	11/26/19 10:11	11/27/19 11:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.39	0.18	1	11/26/19 10:11	11/27/19 11:01	193-39-5	
Isophorone	ND	mg/kg	0.39	0.086	1	11/26/19 10:11	11/27/19 11:01	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.39	0.087	1	11/26/19 10:11	11/27/19 11:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.39	0.099	1	11/26/19 10:11	11/27/19 11:01	15831-10-4	
Naphthalene	ND	mg/kg	0.39	0.094	1	11/26/19 10:11	11/27/19 11:01	91-20-3	
2-Nitroaniline	ND	mg/kg	2.0	0.20	1	11/26/19 10:11	11/27/19 11:01	88-74-4	
3-Nitroaniline	ND	mg/kg	2.0	0.21	1	11/26/19 10:11	11/27/19 11:01	99-09-2	
4-Nitroaniline	ND	mg/kg	0.79	0.19	1	11/26/19 10:11	11/27/19 11:01	100-01-6	
Nitrobenzene	ND	mg/kg	0.39	0.094	1	11/26/19 10:11	11/27/19 11:01	98-95-3	
2-Nitrophenol	ND	mg/kg	0.39	0.12	1	11/26/19 10:11	11/27/19 11:01	88-75-5	
4-Nitrophenol	ND	mg/kg	2.0	0.63	1	11/26/19 10:11	11/27/19 11:01	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	108-60-1	
Pentachlorophenol	ND	mg/kg	2.0	0.18	1	11/26/19 10:11	11/27/19 11:01	87-86-5	
Phenanthrene	ND	mg/kg	0.39	0.099	1	11/26/19 10:11	11/27/19 11:01	85-01-8	
Phenol	ND	mg/kg	0.39	0.094	1	11/26/19 10:11	11/27/19 11:01	108-95-2	
Pyrene	ND	mg/kg	0.39	0.11	1	11/26/19 10:11	11/27/19 11:01	129-00-0	
Pyridine	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.39	0.090	1	11/26/19 10:11	11/27/19 11:01	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.39	0.10	1	11/26/19 10:11	11/27/19 11:01	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.39	0.099	1	11/26/19 10:11	11/27/19 11:01	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	23-110		1	11/26/19 10:11	11/27/19 11:01	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-110		1	11/26/19 10:11	11/27/19 11:01	321-60-8	
Terphenyl-d14 (S)	65	%	28-110		1	11/26/19 10:11	11/27/19 11:01	1718-51-0	
Phenol-d6 (S)	57	%	22-110		1	11/26/19 10:11	11/27/19 11:01	13127-88-3	
2-Fluorophenol (S)	58	%	13-110		1	11/26/19 10:11	11/27/19 11:01	367-12-4	
2,4,6-Tribromophenol (S)	66	%	27-110		1	11/26/19 10:11	11/27/19 11:01	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (19-21)**      **Lab ID: 92454745002**      Collected: 11/20/19 13:50      Received: 11/21/19 10:37      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	ND	mg/kg	0.084	0.0079	1	11/27/19 12:21	12/02/19 12:13	67-64-1	
Benzene	ND	mg/kg	0.0042	0.00075	1	11/27/19 12:21	12/02/19 12:13	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	0.0011	1	11/27/19 12:21	12/02/19 12:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	0.0010	1	11/27/19 12:21	12/02/19 12:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	0.00082	1	11/27/19 12:21	12/02/19 12:13	75-27-4	
Bromoform	ND	mg/kg	0.0042	0.0020	1	11/27/19 12:21	12/02/19 12:13	75-25-2	
Bromomethane	ND	mg/kg	0.0084	0.0020	1	11/27/19 12:21	12/02/19 12:13	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.084	0.010	1	11/27/19 12:21	12/02/19 12:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0042	0.0024	1	11/27/19 12:21	12/02/19 12:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	0.0018	1	11/27/19 12:21	12/02/19 12:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	98-06-6	v3
Carbon tetrachloride	ND	mg/kg	0.0042	0.00080	1	11/27/19 12:21	12/02/19 12:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	0.00081	1	11/27/19 12:21	12/02/19 12:13	108-90-7	
Chloroethane	ND	mg/kg	0.0084	0.0017	1	11/27/19 12:21	12/02/19 12:13	75-00-3	IK
Chloroform	ND	mg/kg	0.0042	0.00089	1	11/27/19 12:21	12/02/19 12:13	67-66-3	
Chloromethane	ND	mg/kg	0.0084	0.0027	1	11/27/19 12:21	12/02/19 12:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	0.0013	1	11/27/19 12:21	12/02/19 12:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	0.0013	1	11/27/19 12:21	12/02/19 12:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0042	0.0021	1	11/27/19 12:21	12/02/19 12:13	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0042	0.0021	1	11/27/19 12:21	12/02/19 12:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	0.00094	1	11/27/19 12:21	12/02/19 12:13	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	0.0012	1	11/27/19 12:21	12/02/19 12:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	0.0015	1	11/27/19 12:21	12/02/19 12:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	0.0015	1	11/27/19 12:21	12/02/19 12:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0084	0.0034	1	11/27/19 12:21	12/02/19 12:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	0.00062	1	11/27/19 12:21	12/02/19 12:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	0.00084	1	11/27/19 12:21	12/02/19 12:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	0.00097	1	11/27/19 12:21	12/02/19 12:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	0.00073	1	11/27/19 12:21	12/02/19 12:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	0.00082	1	11/27/19 12:21	12/02/19 12:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	0.0016	1	11/27/19 12:21	12/02/19 12:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	0.0016	1	11/27/19 12:21	12/02/19 12:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	0.00041	1	11/27/19 12:21	12/02/19 12:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	0.0018	1	11/27/19 12:21	12/02/19 12:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	0.0019	1	11/27/19 12:21	12/02/19 12:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	0.00073	1	11/27/19 12:21	12/02/19 12:13	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0042	0.0024	1	11/27/19 12:21	12/02/19 12:13	108-20-3	
Ethylbenzene	ND	mg/kg	0.0042	0.00089	1	11/27/19 12:21	12/02/19 12:13	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	0.0021	1	11/27/19 12:21	12/02/19 12:13	87-68-3	
2-Hexanone	ND	mg/kg	0.042	0.0043	1	11/27/19 12:21	12/02/19 12:13	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	0.0012	1	11/27/19 12:21	12/02/19 12:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	0.0020	1	11/27/19 12:21	12/02/19 12:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	0.0049	1	11/27/19 12:21	12/02/19 12:13	75-09-2	IH,v1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.042	0.0031	1	11/27/19 12:21	12/02/19 12:13	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-4 (19-21)**      **Lab ID: 92454745002**      Collected: 11/20/19 13:50      Received: 11/21/19 10:37      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	0.0042	0.0024	1	11/27/19 12:21	12/02/19 12:13	1634-04-4	
Naphthalene	ND	mg/kg	0.0042	0.0036	1	11/27/19 12:21	12/02/19 12:13	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	103-65-1	
Styrene	ND	mg/kg	0.0042	0.0012	1	11/27/19 12:21	12/02/19 12:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	0.0010	1	11/27/19 12:21	12/02/19 12:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0042	0.0013	1	11/27/19 12:21	12/02/19 12:13	127-18-4	
Toluene	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	0.0030	1	11/27/19 12:21	12/02/19 12:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	0.0022	1	11/27/19 12:21	12/02/19 12:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	0.00073	1	11/27/19 12:21	12/02/19 12:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	0.00095	1	11/27/19 12:21	12/02/19 12:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	0.0011	1	11/27/19 12:21	12/02/19 12:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	0.00099	1	11/27/19 12:21	12/02/19 12:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	0.0016	1	11/27/19 12:21	12/02/19 12:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	0.0014	1	11/27/19 12:21	12/02/19 12:13	108-67-8	
Vinyl acetate	ND	mg/kg	0.042	0.014	1	11/27/19 12:21	12/02/19 12:13	108-05-4	
Vinyl chloride	ND	mg/kg	0.0084	0.0016	1	11/27/19 12:21	12/02/19 12:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.0084	0.0029	1	11/27/19 12:21	12/02/19 12:13	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0084	0.0020	1	11/27/19 12:21	12/02/19 12:13	179601-23-1	
o-Xylene	ND	mg/kg	0.0042	0.00098	1	11/27/19 12:21	12/02/19 12:13	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	107	%	70-130		1	11/27/19 12:21	12/02/19 12:13	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1	11/27/19 12:21	12/02/19 12:13	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132		1	11/27/19 12:21	12/02/19 12:13	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	0.0081	0.0024	1	11/25/19 11:52	11/25/19 14:17	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1	11/25/19 11:52	11/25/19 14:17	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1	11/25/19 11:52	11/25/19 14:17	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>17.7</b>	%	0.10	0.10	1		11/22/19 13:28		

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (15-17)**      **Lab ID: 92454745003**      Collected: 11/20/19 14:15      Received: 11/21/19 10:37      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	1.3	0.65	1	11/25/19 12:16	11/26/19 19:29	7440-38-2	
Barium	<b>96.9</b>	mg/kg	0.65	0.33	1	11/25/19 12:16	11/26/19 19:29	7440-39-3	
Cadmium	ND	mg/kg	0.13	0.065	1	11/25/19 12:16	11/26/19 19:29	7440-43-9	
Chromium	<b>9.8</b>	mg/kg	0.65	0.33	1	11/25/19 12:16	11/26/19 19:29	7440-47-3	
Lead	<b>7.0</b>	mg/kg	0.65	0.33	1	11/25/19 12:16	11/26/19 19:29	7439-92-1	
Selenium	<b>0.86J</b>	mg/kg	1.3	0.65	1	11/25/19 12:16	11/26/19 19:29	7782-49-2	
Silver	ND	mg/kg	0.65	0.33	1	11/25/19 12:16	11/26/19 19:29	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.0042</b>	mg/kg	0.0034	0.0017	1	11/22/19 11:50	11/22/19 15:29	7439-97-6	
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	83-32-9	
Acenaphthylene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	208-96-8	
Aniline	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	62-53-3	
Anthracene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.49	0.16	1	11/26/19 10:11	11/27/19 11:36	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.49	0.21	1	11/26/19 10:11	11/27/19 11:36	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.49	0.20	1	11/26/19 10:11	11/27/19 11:36	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.49	0.19	1	11/26/19 10:11	11/27/19 11:36	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.49	0.21	1	11/26/19 10:11	11/27/19 11:36	207-08-9	
Benzoic Acid	ND	mg/kg	2.4	0.53	1	11/26/19 10:11	11/27/19 11:36	65-85-0	
Benzyl alcohol	ND	mg/kg	0.98	0.26	1	11/26/19 10:11	11/27/19 11:36	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.98	0.30	1	11/26/19 10:11	11/27/19 11:36	59-50-7	
4-Chloroaniline	ND	mg/kg	2.4	0.30	1	11/26/19 10:11	11/27/19 11:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.49	0.10	1	11/26/19 10:11	11/27/19 11:36	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	91-58-7	
2-Chlorophenol	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	7005-72-3	
Chrysene	ND	mg/kg	0.49	0.14	1	11/26/19 10:11	11/27/19 11:36	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.49	0.20	1	11/26/19 10:11	11/27/19 11:36	53-70-3	
Dibenzofuran	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.4	0.34	1	11/26/19 10:11	11/27/19 11:36	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.49	0.16	1	11/26/19 10:11	11/27/19 11:36	120-83-2	
Diethylphthalate	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	105-67-9	
Dimethylphthalate	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.98	0.79	1	11/26/19 10:11	11/27/19 11:36	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (15-17)**      **Lab ID: 92454745003**      Collected: 11/20/19 14:15      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.4	1.6	1	11/26/19 10:11	11/27/19 11:36	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.49	0.28	1	11/26/19 10:11	11/27/19 11:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.49	0.16	1	11/26/19 10:11	11/27/19 11:36	117-81-7	
Fluoranthene	ND	mg/kg	0.49	0.15	1	11/26/19 10:11	11/27/19 11:36	206-44-0	
Fluorene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.49	0.20	1	11/26/19 10:11	11/27/19 11:36	77-47-4	
Hexachloroethane	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.49	0.22	1	11/26/19 10:11	11/27/19 11:36	193-39-5	
Isophorone	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	15831-10-4	
Naphthalene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	91-20-3	
2-Nitroaniline	ND	mg/kg	2.4	0.25	1	11/26/19 10:11	11/27/19 11:36	88-74-4	
3-Nitroaniline	ND	mg/kg	2.4	0.26	1	11/26/19 10:11	11/27/19 11:36	99-09-2	
4-Nitroaniline	ND	mg/kg	0.98	0.24	1	11/26/19 10:11	11/27/19 11:36	100-01-6	
Nitrobenzene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	98-95-3	
2-Nitrophenol	ND	mg/kg	0.49	0.15	1	11/26/19 10:11	11/27/19 11:36	88-75-5	
4-Nitrophenol	ND	mg/kg	2.4	0.78	1	11/26/19 10:11	11/27/19 11:36	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.49	0.14	1	11/26/19 10:11	11/27/19 11:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.49	0.14	1	11/26/19 10:11	11/27/19 11:36	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.49	0.14	1	11/26/19 10:11	11/27/19 11:36	108-60-1	
Pentachlorophenol	ND	mg/kg	2.4	0.22	1	11/26/19 10:11	11/27/19 11:36	87-86-5	
Phenanthrene	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	85-01-8	
Phenol	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	108-95-2	
Pyrene	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	129-00-0	
Pyridine	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.49	0.11	1	11/26/19 10:11	11/27/19 11:36	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.49	0.13	1	11/26/19 10:11	11/27/19 11:36	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.49	0.12	1	11/26/19 10:11	11/27/19 11:36	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	23-110		1	11/26/19 10:11	11/27/19 11:36	4165-60-0	
2-Fluorobiphenyl (S)	60	%	30-110		1	11/26/19 10:11	11/27/19 11:36	321-60-8	
Terphenyl-d14 (S)	64	%	28-110		1	11/26/19 10:11	11/27/19 11:36	1718-51-0	
Phenol-d6 (S)	56	%	22-110		1	11/26/19 10:11	11/27/19 11:36	13127-88-3	
2-Fluorophenol (S)	57	%	13-110		1	11/26/19 10:11	11/27/19 11:36	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110		1	11/26/19 10:11	11/27/19 11:36	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (15-17)**      **Lab ID: 92454745003**      Collected: 11/20/19 14:15      Received: 11/21/19 10:37      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	ND	mg/kg	0.13	0.012	1	11/27/19 12:21	11/27/19 16:30	67-64-1	
Benzene	ND	mg/kg	0.0065	0.0012	1	11/27/19 12:21	11/27/19 16:30	71-43-2	
Bromobenzene	ND	mg/kg	0.0065	0.0018	1	11/27/19 12:21	11/27/19 16:30	108-86-1	
Bromochloromethane	ND	mg/kg	0.0065	0.0016	1	11/27/19 12:21	11/27/19 16:30	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0065	0.0013	1	11/27/19 12:21	11/27/19 16:30	75-27-4	
Bromoform	ND	mg/kg	0.0065	0.0032	1	11/27/19 12:21	11/27/19 16:30	75-25-2	
Bromomethane	ND	mg/kg	0.013	0.0031	1	11/27/19 12:21	11/27/19 16:30	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.13	0.015	1	11/27/19 12:21	11/27/19 16:30	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0065	0.0037	1	11/27/19 12:21	11/27/19 16:30	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0065	0.0027	1	11/27/19 12:21	11/27/19 16:30	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	98-06-6	v2
Carbon tetrachloride	ND	mg/kg	0.0065	0.0012	1	11/27/19 12:21	11/27/19 16:30	56-23-5	
Chlorobenzene	ND	mg/kg	0.0065	0.0013	1	11/27/19 12:21	11/27/19 16:30	108-90-7	
Chloroethane	ND	mg/kg	0.013	0.0027	1	11/27/19 12:21	11/27/19 16:30	75-00-3	IK
Chloroform	ND	mg/kg	0.0065	0.0014	1	11/27/19 12:21	11/27/19 16:30	67-66-3	
Chloromethane	ND	mg/kg	0.013	0.0042	1	11/27/19 12:21	11/27/19 16:30	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0065	0.0020	1	11/27/19 12:21	11/27/19 16:30	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0065	0.0019	1	11/27/19 12:21	11/27/19 16:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0065	0.0033	1	11/27/19 12:21	11/27/19 16:30	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0065	0.0032	1	11/27/19 12:21	11/27/19 16:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0065	0.0015	1	11/27/19 12:21	11/27/19 16:30	106-93-4	
Dibromomethane	ND	mg/kg	0.0065	0.0019	1	11/27/19 12:21	11/27/19 16:30	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0065	0.0023	1	11/27/19 12:21	11/27/19 16:30	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0065	0.0023	1	11/27/19 12:21	11/27/19 16:30	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.013	0.0053	1	11/27/19 12:21	11/27/19 16:30	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0065	0.00095	1	11/27/19 12:21	11/27/19 16:30	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0065	0.0013	1	11/27/19 12:21	11/27/19 16:30	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0065	0.0015	1	11/27/19 12:21	11/27/19 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0065	0.0011	1	11/27/19 12:21	11/27/19 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0065	0.0013	1	11/27/19 12:21	11/27/19 16:30	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0065	0.0024	1	11/27/19 12:21	11/27/19 16:30	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0065	0.0024	1	11/27/19 12:21	11/27/19 16:30	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0065	0.00064	1	11/27/19 12:21	11/27/19 16:30	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0065	0.0027	1	11/27/19 12:21	11/27/19 16:30	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0065	0.0029	1	11/27/19 12:21	11/27/19 16:30	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0065	0.0011	1	11/27/19 12:21	11/27/19 16:30	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0065	0.0037	1	11/27/19 12:21	11/27/19 16:30	108-20-3	
Ethylbenzene	ND	mg/kg	0.0065	0.0014	1	11/27/19 12:21	11/27/19 16:30	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0065	0.0032	1	11/27/19 12:21	11/27/19 16:30	87-68-3	
2-Hexanone	ND	mg/kg	0.065	0.0067	1	11/27/19 12:21	11/27/19 16:30	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0065	0.0019	1	11/27/19 12:21	11/27/19 16:30	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0065	0.0031	1	11/27/19 12:21	11/27/19 16:30	99-87-6	
Methylene Chloride	ND	mg/kg	0.026	0.0077	1	11/27/19 12:21	11/27/19 16:30	75-09-2	IH,v1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.065	0.0048	1	11/27/19 12:21	11/27/19 16:30	108-10-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (15-17)**      **Lab ID: 92454745003**      Collected: 11/20/19 14:15      Received: 11/21/19 10:37      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	0.0065	0.0037	1	11/27/19 12:21	11/27/19 16:30	1634-04-4	
Naphthalene	ND	mg/kg	0.0065	0.0055	1	11/27/19 12:21	11/27/19 16:30	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	103-65-1	
Styrene	ND	mg/kg	0.0065	0.0019	1	11/27/19 12:21	11/27/19 16:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0065	0.0016	1	11/27/19 12:21	11/27/19 16:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0065	0.0020	1	11/27/19 12:21	11/27/19 16:30	127-18-4	
Toluene	ND	mg/kg	0.0065	0.0021	1	11/27/19 12:21	11/27/19 16:30	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0065	0.0046	1	11/27/19 12:21	11/27/19 16:30	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0065	0.0034	1	11/27/19 12:21	11/27/19 16:30	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0065	0.0011	1	11/27/19 12:21	11/27/19 16:30	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0065	0.0015	1	11/27/19 12:21	11/27/19 16:30	79-00-5	
Trichloroethene	ND	mg/kg	0.0065	0.0017	1	11/27/19 12:21	11/27/19 16:30	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0065	0.0015	1	11/27/19 12:21	11/27/19 16:30	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0065	0.0025	1	11/27/19 12:21	11/27/19 16:30	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0065	0.0022	1	11/27/19 12:21	11/27/19 16:30	108-67-8	
Vinyl acetate	ND	mg/kg	0.065	0.021	1	11/27/19 12:21	11/27/19 16:30	108-05-4	
Vinyl chloride	ND	mg/kg	0.013	0.0025	1	11/27/19 12:21	11/27/19 16:30	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	0.0045	1	11/27/19 12:21	11/27/19 16:30	1330-20-7	
m&p-Xylene	ND	mg/kg	0.013	0.0031	1	11/27/19 12:21	11/27/19 16:30	179601-23-1	
o-Xylene	ND	mg/kg	0.0065	0.0015	1	11/27/19 12:21	11/27/19 16:30	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	113	%	70-130		1	11/27/19 12:21	11/27/19 16:30	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1	11/27/19 12:21	11/27/19 16:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-132		1	11/27/19 12:21	11/27/19 16:30	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	0.012	0.0037	1	11/25/19 11:52	11/25/19 14:37	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1	11/25/19 11:52	11/25/19 14:37	17060-07-0	
Toluene-d8 (S)	104	%	50-150		1	11/25/19 11:52	11/25/19 14:37	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>32.9</b>	%	0.10	0.10	1		11/22/19 13:28		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (19-21)**      **Lab ID: 92454745004**      Collected: 11/20/19 14:50      Received: 11/21/19 10:37      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	1.1	0.55	1	11/25/19 12:16	11/26/19 19:32	7440-38-2	
Barium	<b>55.0</b>	mg/kg	0.55	0.28	1	11/25/19 12:16	11/26/19 19:32	7440-39-3	
Cadmium	ND	mg/kg	0.11	0.055	1	11/25/19 12:16	11/26/19 19:32	7440-43-9	
Chromium	<b>11.8</b>	mg/kg	0.55	0.28	1	11/25/19 12:16	11/26/19 19:32	7440-47-3	
Lead	<b>2.2</b>	mg/kg	0.55	0.28	1	11/25/19 12:16	11/26/19 19:32	7439-92-1	
Selenium	<b>0.71J</b>	mg/kg	1.1	0.55	1	11/25/19 12:16	11/26/19 19:32	7782-49-2	
Silver	ND	mg/kg	0.55	0.28	1	11/25/19 12:16	11/26/19 19:32	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.0026	0.0013	1	11/22/19 11:50	11/22/19 15:31	7439-97-6	
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	83-32-9	
Acenaphthylene	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	208-96-8	
Aniline	ND	mg/kg	0.42	0.095	1	11/26/19 10:11	11/27/19 12:11	62-53-3	
Anthracene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.42	0.14	1	11/26/19 10:11	11/27/19 12:11	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.42	0.18	1	11/26/19 10:11	11/27/19 12:11	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.42	0.17	1	11/26/19 10:11	11/27/19 12:11	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.42	0.17	1	11/26/19 10:11	11/27/19 12:11	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.42	0.18	1	11/26/19 10:11	11/27/19 12:11	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	0.46	1	11/26/19 10:11	11/27/19 12:11	65-85-0	
Benzyl alcohol	ND	mg/kg	0.85	0.23	1	11/26/19 10:11	11/27/19 12:11	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.85	0.26	1	11/26/19 10:11	11/27/19 12:11	59-50-7	
4-Chloroaniline	ND	mg/kg	2.1	0.26	1	11/26/19 10:11	11/27/19 12:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.42	0.090	1	11/26/19 10:11	11/27/19 12:11	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.42	0.095	1	11/26/19 10:11	11/27/19 12:11	91-58-7	
2-Chlorophenol	ND	mg/kg	0.42	0.099	1	11/26/19 10:11	11/27/19 12:11	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	7005-72-3	
Chrysene	ND	mg/kg	0.42	0.12	1	11/26/19 10:11	11/27/19 12:11	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.42	0.17	1	11/26/19 10:11	11/27/19 12:11	53-70-3	
Dibenzofuran	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.42	0.092	1	11/26/19 10:11	11/27/19 12:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.42	0.096	1	11/26/19 10:11	11/27/19 12:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.42	0.093	1	11/26/19 10:11	11/27/19 12:11	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.1	0.30	1	11/26/19 10:11	11/27/19 12:11	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.42	0.14	1	11/26/19 10:11	11/27/19 12:11	120-83-2	
Diethylphthalate	ND	mg/kg	0.42	0.092	1	11/26/19 10:11	11/27/19 12:11	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	105-67-9	
Dimethylphthalate	ND	mg/kg	0.42	0.096	1	11/26/19 10:11	11/27/19 12:11	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.85	0.68	1	11/26/19 10:11	11/27/19 12:11	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (19-21)**      **Lab ID: 92454745004**      Collected: 11/20/19 14:50      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	mg/kg	2.1	1.4	1	11/26/19 10:11	11/27/19 12:11	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.42	0.24	1	11/26/19 10:11	11/27/19 12:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.42	0.14	1	11/26/19 10:11	11/27/19 12:11	117-81-7	
Fluoranthene	ND	mg/kg	0.42	0.13	1	11/26/19 10:11	11/27/19 12:11	206-44-0	
Fluorene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.42	0.17	1	11/26/19 10:11	11/27/19 12:11	77-47-4	
Hexachloroethane	ND	mg/kg	0.42	0.097	1	11/26/19 10:11	11/27/19 12:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.42	0.19	1	11/26/19 10:11	11/27/19 12:11	193-39-5	
Isophorone	ND	mg/kg	0.42	0.092	1	11/26/19 10:11	11/27/19 12:11	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.42	0.094	1	11/26/19 10:11	11/27/19 12:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	15831-10-4	
Naphthalene	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	91-20-3	
2-Nitroaniline	ND	mg/kg	2.1	0.21	1	11/26/19 10:11	11/27/19 12:11	88-74-4	
3-Nitroaniline	ND	mg/kg	2.1	0.23	1	11/26/19 10:11	11/27/19 12:11	99-09-2	
4-Nitroaniline	ND	mg/kg	0.85	0.21	1	11/26/19 10:11	11/27/19 12:11	100-01-6	
Nitrobenzene	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	98-95-3	
2-Nitrophenol	ND	mg/kg	0.42	0.13	1	11/26/19 10:11	11/27/19 12:11	88-75-5	
4-Nitrophenol	ND	mg/kg	2.1	0.68	1	11/26/19 10:11	11/27/19 12:11	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.42	0.12	1	11/26/19 10:11	11/27/19 12:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.42	0.12	1	11/26/19 10:11	11/27/19 12:11	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.42	0.12	1	11/26/19 10:11	11/27/19 12:11	108-60-1	
Pentachlorophenol	ND	mg/kg	2.1	0.19	1	11/26/19 10:11	11/27/19 12:11	87-86-5	
Phenanthrene	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	85-01-8	
Phenol	ND	mg/kg	0.42	0.10	1	11/26/19 10:11	11/27/19 12:11	108-95-2	
Pyrene	ND	mg/kg	0.42	0.12	1	11/26/19 10:11	11/27/19 12:11	129-00-0	
Pyridine	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.42	0.097	1	11/26/19 10:11	11/27/19 12:11	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.42	0.11	1	11/26/19 10:11	11/27/19 12:11	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	62	%	23-110		1	11/26/19 10:11	11/27/19 12:11	4165-60-0	
2-Fluorobiphenyl (S)	65	%	30-110		1	11/26/19 10:11	11/27/19 12:11	321-60-8	
Terphenyl-d14 (S)	68	%	28-110		1	11/26/19 10:11	11/27/19 12:11	1718-51-0	
Phenol-d6 (S)	59	%	22-110		1	11/26/19 10:11	11/27/19 12:11	13127-88-3	
2-Fluorophenol (S)	61	%	13-110		1	11/26/19 10:11	11/27/19 12:11	367-12-4	
2,4,6-Tribromophenol (S)	69	%	27-110		1	11/26/19 10:11	11/27/19 12:11	118-79-6	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

Sample: SB-5 (19-21) Lab ID: 92454745004 Collected: 11/20/19 14:50 Received: 11/21/19 10:37 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	ND	mg/kg	0.11	0.011	1	11/27/19 12:21	12/02/19 12:37	67-64-1	
Benzene	ND	mg/kg	0.0056	0.0010	1	11/27/19 12:21	12/02/19 12:37	71-43-2	
Bromobenzene	ND	mg/kg	0.0056	0.0015	1	11/27/19 12:21	12/02/19 12:37	108-86-1	
Bromochloromethane	ND	mg/kg	0.0056	0.0014	1	11/27/19 12:21	12/02/19 12:37	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0056	0.0011	1	11/27/19 12:21	12/02/19 12:37	75-27-4	
Bromoform	ND	mg/kg	0.0056	0.0027	1	11/27/19 12:21	12/02/19 12:37	75-25-2	
Bromomethane	ND	mg/kg	0.011	0.0026	1	11/27/19 12:21	12/02/19 12:37	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.11	0.013	1	11/27/19 12:21	12/02/19 12:37	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0056	0.0031	1	11/27/19 12:21	12/02/19 12:37	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0056	0.0024	1	11/27/19 12:21	12/02/19 12:37	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0056	0.0011	1	11/27/19 12:21	12/02/19 12:37	56-23-5	
Chlorobenzene	ND	mg/kg	0.0056	0.0011	1	11/27/19 12:21	12/02/19 12:37	108-90-7	
Chloroethane	ND	mg/kg	0.011	0.0023	1	11/27/19 12:21	12/02/19 12:37	75-00-3	IK
Chloroform	ND	mg/kg	0.0056	0.0012	1	11/27/19 12:21	12/02/19 12:37	67-66-3	
Chloromethane	ND	mg/kg	0.011	0.0037	1	11/27/19 12:21	12/02/19 12:37	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0056	0.0017	1	11/27/19 12:21	12/02/19 12:37	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0056	0.0017	1	11/27/19 12:21	12/02/19 12:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0056	0.0028	1	11/27/19 12:21	12/02/19 12:37	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0056	0.0028	1	11/27/19 12:21	12/02/19 12:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0056	0.0012	1	11/27/19 12:21	12/02/19 12:37	106-93-4	
Dibromomethane	ND	mg/kg	0.0056	0.0017	1	11/27/19 12:21	12/02/19 12:37	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0056	0.0020	1	11/27/19 12:21	12/02/19 12:37	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0056	0.0020	1	11/27/19 12:21	12/02/19 12:37	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.011	0.0046	1	11/27/19 12:21	12/02/19 12:37	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0056	0.00082	1	11/27/19 12:21	12/02/19 12:37	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0056	0.0011	1	11/27/19 12:21	12/02/19 12:37	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0056	0.0013	1	11/27/19 12:21	12/02/19 12:37	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0056	0.00097	1	11/27/19 12:21	12/02/19 12:37	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0056	0.0011	1	11/27/19 12:21	12/02/19 12:37	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0056	0.0021	1	11/27/19 12:21	12/02/19 12:37	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0056	0.0021	1	11/27/19 12:21	12/02/19 12:37	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0056	0.00055	1	11/27/19 12:21	12/02/19 12:37	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0056	0.0024	1	11/27/19 12:21	12/02/19 12:37	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0056	0.0025	1	11/27/19 12:21	12/02/19 12:37	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0056	0.00097	1	11/27/19 12:21	12/02/19 12:37	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0056	0.0032	1	11/27/19 12:21	12/02/19 12:37	108-20-3	
Ethylbenzene	ND	mg/kg	0.0056	0.0012	1	11/27/19 12:21	12/02/19 12:37	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0056	0.0028	1	11/27/19 12:21	12/02/19 12:37	87-68-3	
2-Hexanone	ND	mg/kg	0.056	0.0058	1	11/27/19 12:21	12/02/19 12:37	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0056	0.0016	1	11/27/19 12:21	12/02/19 12:37	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0056	0.0027	1	11/27/19 12:21	12/02/19 12:37	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	0.0066	1	11/27/19 12:21	12/02/19 12:37	75-09-2	IH
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.056	0.0042	1	11/27/19 12:21	12/02/19 12:37	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: SB-5 (19-21)**      **Lab ID: 92454745004**      Collected: 11/20/19 14:50      Received: 11/21/19 10:37      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	0.0056	0.0032	1	11/27/19 12:21	12/02/19 12:37	1634-04-4	
Naphthalene	ND	mg/kg	0.0056	0.0047	1	11/27/19 12:21	12/02/19 12:37	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	103-65-1	
Styrene	ND	mg/kg	0.0056	0.0016	1	11/27/19 12:21	12/02/19 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0056	0.0014	1	11/27/19 12:21	12/02/19 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0056	0.0018	1	11/27/19 12:21	12/02/19 12:37	127-18-4	
Toluene	ND	mg/kg	0.0056	0.0018	1	11/27/19 12:21	12/02/19 12:37	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0056	0.0040	1	11/27/19 12:21	12/02/19 12:37	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0056	0.0030	1	11/27/19 12:21	12/02/19 12:37	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0056	0.00097	1	11/27/19 12:21	12/02/19 12:37	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0056	0.0013	1	11/27/19 12:21	12/02/19 12:37	79-00-5	
Trichloroethene	ND	mg/kg	0.0056	0.0014	1	11/27/19 12:21	12/02/19 12:37	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0056	0.0013	1	11/27/19 12:21	12/02/19 12:37	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0056	0.0022	1	11/27/19 12:21	12/02/19 12:37	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0056	0.0019	1	11/27/19 12:21	12/02/19 12:37	108-67-8	
Vinyl acetate	ND	mg/kg	0.056	0.018	1	11/27/19 12:21	12/02/19 12:37	108-05-4	
Vinyl chloride	ND	mg/kg	0.011	0.0021	1	11/27/19 12:21	12/02/19 12:37	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	0.0039	1	11/27/19 12:21	12/02/19 12:37	1330-20-7	
m&p-Xylene	ND	mg/kg	0.011	0.0026	1	11/27/19 12:21	12/02/19 12:37	179601-23-1	
o-Xylene	ND	mg/kg	0.0056	0.0013	1	11/27/19 12:21	12/02/19 12:37	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	107	%	70-130		1	11/27/19 12:21	12/02/19 12:37	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1	11/27/19 12:21	12/02/19 12:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-132		1	11/27/19 12:21	12/02/19 12:37	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	0.0032	1	11/25/19 11:52	11/25/19 14:57	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1	11/25/19 11:52	11/25/19 14:57	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1	11/25/19 11:52	11/25/19 14:57	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>23.5</b>	%	0.10	0.10	1		11/22/19 13:28		

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: DUP-1-SOIL**      **Lab ID: 92454745005**      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	ND	mg/kg	1.2	0.61	1	11/25/19 12:16	11/26/19 19:35	7440-38-2	
Barium	<b>64.0</b>	mg/kg	0.61	0.31	1	11/25/19 12:16	11/26/19 19:35	7440-39-3	
Cadmium	ND	mg/kg	0.12	0.061	1	11/25/19 12:16	11/26/19 19:35	7440-43-9	
Chromium	<b>13.2</b>	mg/kg	0.61	0.31	1	11/25/19 12:16	11/26/19 19:35	7440-47-3	
Lead	<b>1.6</b>	mg/kg	0.61	0.31	1	11/25/19 12:16	11/26/19 19:35	7439-92-1	
Selenium	<b>0.63J</b>	mg/kg	1.2	0.61	1	11/25/19 12:16	11/26/19 19:35	7782-49-2	
Silver	ND	mg/kg	0.61	0.31	1	11/25/19 12:16	11/26/19 19:35	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.0029</b>	mg/kg	0.0027	0.0013	1	11/22/19 11:50	11/22/19 15:38	7439-97-6	
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	83-32-9	
Acenaphthylene	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	208-96-8	
Aniline	ND	mg/kg	0.43	0.097	1	11/26/19 10:11	11/27/19 12:46	62-53-3	
Anthracene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.43	0.14	1	11/26/19 10:11	11/27/19 12:46	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.43	0.19	1	11/26/19 10:11	11/27/19 12:46	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.43	0.17	1	11/26/19 10:11	11/27/19 12:46	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.43	0.17	1	11/26/19 10:11	11/27/19 12:46	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.43	0.18	1	11/26/19 10:11	11/27/19 12:46	207-08-9	
Benzoic Acid	ND	mg/kg	2.2	0.46	1	11/26/19 10:11	11/27/19 12:46	65-85-0	
Benzyl alcohol	ND	mg/kg	0.86	0.23	1	11/26/19 10:11	11/27/19 12:46	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.86	0.26	1	11/26/19 10:11	11/27/19 12:46	59-50-7	
4-Chloroaniline	ND	mg/kg	2.2	0.26	1	11/26/19 10:11	11/27/19 12:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.43	0.091	1	11/26/19 10:11	11/27/19 12:46	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.43	0.096	1	11/26/19 10:11	11/27/19 12:46	91-58-7	
2-Chlorophenol	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	7005-72-3	
Chrysene	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.43	0.17	1	11/26/19 10:11	11/27/19 12:46	53-70-3	
Dibenzofuran	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.43	0.093	1	11/26/19 10:11	11/27/19 12:46	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.43	0.097	1	11/26/19 10:11	11/27/19 12:46	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.43	0.095	1	11/26/19 10:11	11/27/19 12:46	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.2	0.30	1	11/26/19 10:11	11/27/19 12:46	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.43	0.14	1	11/26/19 10:11	11/27/19 12:46	120-83-2	
Diethylphthalate	ND	mg/kg	0.43	0.093	1	11/26/19 10:11	11/27/19 12:46	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	105-67-9	
Dimethylphthalate	ND	mg/kg	0.43	0.097	1	11/26/19 10:11	11/27/19 12:46	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.86	0.69	1	11/26/19 10:11	11/27/19 12:46	534-52-1	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: DUP-1-SOIL**      **Lab ID: 92454745005**      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>		Analytical Method: EPA 8270E    Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	mg/kg	2.2	1.4	1	11/26/19 10:11	11/27/19 12:46	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.43	0.25	1	11/26/19 10:11	11/27/19 12:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.43	0.14	1	11/26/19 10:11	11/27/19 12:46	117-81-7	
Fluoranthene	ND	mg/kg	0.43	0.13	1	11/26/19 10:11	11/27/19 12:46	206-44-0	
Fluorene	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.43	0.17	1	11/26/19 10:11	11/27/19 12:46	77-47-4	
Hexachloroethane	ND	mg/kg	0.43	0.098	1	11/26/19 10:11	11/27/19 12:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.43	0.20	1	11/26/19 10:11	11/27/19 12:46	193-39-5	
Isophorone	ND	mg/kg	0.43	0.094	1	11/26/19 10:11	11/27/19 12:46	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.43	0.095	1	11/26/19 10:11	11/27/19 12:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	15831-10-4	
Naphthalene	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	91-20-3	
2-Nitroaniline	ND	mg/kg	2.2	0.22	1	11/26/19 10:11	11/27/19 12:46	88-74-4	
3-Nitroaniline	ND	mg/kg	2.2	0.23	1	11/26/19 10:11	11/27/19 12:46	99-09-2	
4-Nitroaniline	ND	mg/kg	0.86	0.21	1	11/26/19 10:11	11/27/19 12:46	100-01-6	
Nitrobenzene	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	98-95-3	
2-Nitrophenol	ND	mg/kg	0.43	0.13	1	11/26/19 10:11	11/27/19 12:46	88-75-5	
4-Nitrophenol	ND	mg/kg	2.2	0.69	1	11/26/19 10:11	11/27/19 12:46	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	108-60-1	
Pentachlorophenol	ND	mg/kg	2.2	0.20	1	11/26/19 10:11	11/27/19 12:46	87-86-5	
Phenanthrene	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	85-01-8	
Phenol	ND	mg/kg	0.43	0.10	1	11/26/19 10:11	11/27/19 12:46	108-95-2	
Pyrene	ND	mg/kg	0.43	0.12	1	11/26/19 10:11	11/27/19 12:46	129-00-0	
Pyridine	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.43	0.099	1	11/26/19 10:11	11/27/19 12:46	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.43	0.11	1	11/26/19 10:11	11/27/19 12:46	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	23-110		1	11/26/19 10:11	11/27/19 12:46	4165-60-0	
2-Fluorobiphenyl (S)	62	%	30-110		1	11/26/19 10:11	11/27/19 12:46	321-60-8	
Terphenyl-d14 (S)	66	%	28-110		1	11/26/19 10:11	11/27/19 12:46	1718-51-0	
Phenol-d6 (S)	56	%	22-110		1	11/26/19 10:11	11/27/19 12:46	13127-88-3	
2-Fluorophenol (S)	58	%	13-110		1	11/26/19 10:11	11/27/19 12:46	367-12-4	
2,4,6-Tribromophenol (S)	66	%	27-110		1	11/26/19 10:11	11/27/19 12:46	118-79-6	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: DUP-1-SOIL**      **Lab ID: 92454745005**      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      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	ND	mg/kg	0.12	0.011	1	11/27/19 12:21	11/27/19 17:18	67-64-1	
Benzene	ND	mg/kg	0.0059	0.0011	1	11/27/19 12:21	11/27/19 17:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0059	0.0016	1	11/27/19 12:21	11/27/19 17:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0059	0.0015	1	11/27/19 12:21	11/27/19 17:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0059	0.0012	1	11/27/19 12:21	11/27/19 17:18	75-27-4	
Bromoform	ND	mg/kg	0.0059	0.0029	1	11/27/19 12:21	11/27/19 17:18	75-25-2	
Bromomethane	ND	mg/kg	0.012	0.0028	1	11/27/19 12:21	11/27/19 17:18	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.12	0.014	1	11/27/19 12:21	11/27/19 17:18	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0059	0.0033	1	11/27/19 12:21	11/27/19 17:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0059	0.0025	1	11/27/19 12:21	11/27/19 17:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0059	0.0020	1	11/27/19 12:21	11/27/19 17:18	98-06-6	v2
Carbon tetrachloride	ND	mg/kg	0.0059	0.0011	1	11/27/19 12:21	11/27/19 17:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0059	0.0011	1	11/27/19 12:21	11/27/19 17:18	108-90-7	
Chloroethane	ND	mg/kg	0.012	0.0025	1	11/27/19 12:21	11/27/19 17:18	75-00-3	IK
Chloroform	ND	mg/kg	0.0059	0.0013	1	11/27/19 12:21	11/27/19 17:18	67-66-3	
Chloromethane	ND	mg/kg	0.012	0.0039	1	11/27/19 12:21	11/27/19 17:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0059	0.0018	1	11/27/19 12:21	11/27/19 17:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0059	0.0018	1	11/27/19 12:21	11/27/19 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0059	0.0030	1	11/27/19 12:21	11/27/19 17:18	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0059	0.0030	1	11/27/19 12:21	11/27/19 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0059	0.0013	1	11/27/19 12:21	11/27/19 17:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0059	0.0018	1	11/27/19 12:21	11/27/19 17:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0059	0.0021	1	11/27/19 12:21	11/27/19 17:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0059	0.0021	1	11/27/19 12:21	11/27/19 17:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0059	0.0021	1	11/27/19 12:21	11/27/19 17:18	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.012	0.0049	1	11/27/19 12:21	11/27/19 17:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0059	0.00087	1	11/27/19 12:21	11/27/19 17:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0059	0.0012	1	11/27/19 12:21	11/27/19 17:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0059	0.0014	1	11/27/19 12:21	11/27/19 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0059	0.0010	1	11/27/19 12:21	11/27/19 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0059	0.0012	1	11/27/19 12:21	11/27/19 17:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0059	0.0022	1	11/27/19 12:21	11/27/19 17:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0059	0.0022	1	11/27/19 12:21	11/27/19 17:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0059	0.00059	1	11/27/19 12:21	11/27/19 17:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0059	0.0025	1	11/27/19 12:21	11/27/19 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0059	0.0027	1	11/27/19 12:21	11/27/19 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0059	0.0010	1	11/27/19 12:21	11/27/19 17:18	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0059	0.0034	1	11/27/19 12:21	11/27/19 17:18	108-20-3	
Ethylbenzene	ND	mg/kg	0.0059	0.0013	1	11/27/19 12:21	11/27/19 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0059	0.0029	1	11/27/19 12:21	11/27/19 17:18	87-68-3	
2-Hexanone	ND	mg/kg	0.059	0.0061	1	11/27/19 12:21	11/27/19 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0059	0.0017	1	11/27/19 12:21	11/27/19 17:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0059	0.0029	1	11/27/19 12:21	11/27/19 17:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.024	0.0070	1	11/27/19 12:21	11/27/19 17:18	75-09-2	IH,v1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.059	0.0044	1	11/27/19 12:21	11/27/19 17:18	108-10-1	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: DUP-1-SOIL**      **Lab ID: 92454745005**      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      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	0.0034	1	11/27/19 12:21	11/27/19 17:18	1634-04-4	
Naphthalene	ND	mg/kg	0.0059	0.0050	1	11/27/19 12:21	11/27/19 17:18	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0059	0.0020	1	11/27/19 12:21	11/27/19 17:18	103-65-1	
Styrene	ND	mg/kg	0.0059	0.0018	1	11/27/19 12:21	11/27/19 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0059	0.0015	1	11/27/19 12:21	11/27/19 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0059	0.0021	1	11/27/19 12:21	11/27/19 17:18	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0059	0.0019	1	11/27/19 12:21	11/27/19 17:18	127-18-4	
Toluene	ND	mg/kg	0.0059	0.0019	1	11/27/19 12:21	11/27/19 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0059	0.0042	1	11/27/19 12:21	11/27/19 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0059	0.0031	1	11/27/19 12:21	11/27/19 17:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0059	0.0010	1	11/27/19 12:21	11/27/19 17:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0059	0.0013	1	11/27/19 12:21	11/27/19 17:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0059	0.0015	1	11/27/19 12:21	11/27/19 17:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0059	0.0014	1	11/27/19 12:21	11/27/19 17:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0059	0.0020	1	11/27/19 12:21	11/27/19 17:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0059	0.0023	1	11/27/19 12:21	11/27/19 17:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0059	0.0020	1	11/27/19 12:21	11/27/19 17:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.059	0.019	1	11/27/19 12:21	11/27/19 17:18	108-05-4	
Vinyl chloride	ND	mg/kg	0.012	0.0023	1	11/27/19 12:21	11/27/19 17:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.012	0.0042	1	11/27/19 12:21	11/27/19 17:18	1330-20-7	
m&p-Xylene	ND	mg/kg	0.012	0.0028	1	11/27/19 12:21	11/27/19 17:18	179601-23-1	
o-Xylene	ND	mg/kg	0.0059	0.0014	1	11/27/19 12:21	11/27/19 17:18	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	70-130		1	11/27/19 12:21	11/27/19 17:18	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1	11/27/19 12:21	11/27/19 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132		1	11/27/19 12:21	11/27/19 17:18	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	0.013	0.0038	1	11/25/19 11:52	11/25/19 15:17	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	50-150		1	11/25/19 11:52	11/25/19 15:17	17060-07-0	
Toluene-d8 (S)	104	%	50-150		1	11/25/19 11:52	11/25/19 15:17	2037-26-5	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>22.8</b>	%	0.10	0.10	1		11/22/19 13:28		

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

**Sample: TRIP BLANK**      **Lab ID: 92454745006**      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>									
Analytical Method: EPA 8260D									
Acetone	ND	ug/L	25.0	6.2	1		11/27/19 17:00	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		11/27/19 17:00	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		11/27/19 17:00	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		11/27/19 17:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		11/27/19 17:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		11/27/19 17:00	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		11/27/19 17:00	74-83-9	IH,L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		11/27/19 17:00	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		11/27/19 17:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/27/19 17:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		11/27/19 17:00	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		11/27/19 17:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		11/27/19 17:00	74-87-3	IK
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		11/27/19 17:00	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		11/27/19 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		11/27/19 17:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		11/27/19 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		11/27/19 17:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		11/27/19 17:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		11/27/19 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		11/27/19 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		11/27/19 17:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		11/27/19 17:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		11/27/19 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		11/27/19 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		11/27/19 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		11/27/19 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		11/27/19 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		11/27/19 17:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		11/27/19 17:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/27/19 17:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		11/27/19 17:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		11/27/19 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		11/27/19 17:00	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		11/27/19 17:00	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		11/27/19 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		11/27/19 17:00	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		11/27/19 17:00	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		11/27/19 17:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		11/27/19 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		11/27/19 17:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		11/27/19 17:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		11/27/19 17:00	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		11/27/19 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		11/27/19 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		11/27/19 17:00	79-34-5	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454745

Sample: TRIP BLANK      Lab ID: 92454745006      Collected: 11/20/19 00:00      Received: 11/21/19 10:37      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b> Analytical Method: EPA 8260D									
Tetrachloroethene	ND	ug/L	1.0	0.16	1		11/27/19 17:00	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		11/27/19 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		11/27/19 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		11/27/19 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		11/27/19 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		11/27/19 17:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		11/27/19 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		11/27/19 17:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		11/27/19 17:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		11/27/19 17:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		11/27/19 17:00	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		11/27/19 17:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		11/27/19 17:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		11/27/19 17:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/27/19 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		11/27/19 17:00	17060-07-0	
Toluene-d8 (S)	89	%	70-130		1		11/27/19 17:00	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		11/23/19 20:02	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	50-150		1		11/23/19 20:02	17060-07-0	
Toluene-d8 (S)	105	%	50-150		1		11/23/19 20:02	2037-26-5	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 511178 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

METHOD BLANK: 2742192 Matrix: Solid  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	0.0030	11/22/19 14:42	

LABORATORY CONTROL SAMPLE: 2742193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.077	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2742194 2742195

Parameter	Units	2742194		2742195		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454639001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/kg	ND	0.042	0.041	0.040	0.035	88	80	75-125	12	20

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.

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 511524 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B Analysis Description: 6010 MET  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

METHOD BLANK: 2743755 Matrix: Solid  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.50	11/26/19 19:08	
Barium	mg/kg	ND	0.50	0.25	11/26/19 19:08	
Cadmium	mg/kg	ND	0.10	0.050	11/26/19 19:08	
Chromium	mg/kg	ND	0.50	0.25	11/26/19 19:08	
Lead	mg/kg	ND	0.50	0.25	11/26/19 19:08	
Selenium	mg/kg	ND	1.0	0.50	11/26/19 19:08	
Silver	mg/kg	ND	0.50	0.25	11/26/19 19:08	

LABORATORY CONTROL SAMPLE: 2743756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.9	98	80-120	
Barium	mg/kg	50	49.5	99	80-120	
Cadmium	mg/kg	50	49.1	98	80-120	
Chromium	mg/kg	50	49.6	99	80-120	
Lead	mg/kg	50	48.5	97	80-120	
Selenium	mg/kg	50	46.7	93	80-120	
Silver	mg/kg	25	24.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743757 2743758

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454745001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/kg	ND	51	51	45.2	44.4	88	87	75-125	2	20
Barium	mg/kg	366	51	51	346	406	-40	79	75-125	16	20 M1
Cadmium	mg/kg	0.073J	51	51	45.2	43.6	89	86	75-125	4	20
Chromium	mg/kg	14.5	51	51	57.4	57.4	84	84	75-125	0	20
Lead	mg/kg	1.3	51	51	45.1	43.6	86	83	75-125	3	20
Selenium	mg/kg	ND	51	51	43.2	40.5	85	80	75-125	7	20
Silver	mg/kg	ND	25.4	25.4	25.9	25.2	102	99	75-125	2	20

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 512117 Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

METHOD BLANK: 2746337 Matrix: Solid  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.00087	11/27/19 10:53	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
1,1-Dichloroethane	mg/kg	ND	0.0050	0.00074	11/27/19 10:53	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
1,1-Dichloropropene	mg/kg	ND	0.0050	0.0021	11/27/19 10:53	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	0.0036	11/27/19 10:53	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	0.0026	11/27/19 10:53	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	0.0020	11/27/19 10:53	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/27/19 10:53	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0010	11/27/19 10:53	
1,2-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/27/19 10:53	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/27/19 10:53	
1,3-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/27/19 10:53	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
2,2-Dichloropropane	mg/kg	ND	0.0050	0.00049	11/27/19 10:53	
2-Butanone (MEK)	mg/kg	ND	0.10	0.012	11/27/19 10:53	
2-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
2-Hexanone	mg/kg	ND	0.050	0.0052	11/27/19 10:53	
4-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.050	0.0037	11/27/19 10:53	
Acetone	mg/kg	ND	0.10	0.0094	11/27/19 10:53	
Benzene	mg/kg	ND	0.0050	0.00090	11/27/19 10:53	
Bromobenzene	mg/kg	ND	0.0050	0.0014	11/27/19 10:53	
Bromochloromethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
Bromodichloromethane	mg/kg	ND	0.0050	0.00098	11/27/19 10:53	
Bromoform	mg/kg	ND	0.0050	0.0024	11/27/19 10:53	
Bromomethane	mg/kg	ND	0.010	0.0024	11/27/19 10:53	IH
Carbon tetrachloride	mg/kg	ND	0.0050	0.00096	11/27/19 10:53	
Chlorobenzene	mg/kg	ND	0.0050	0.00097	11/27/19 10:53	
Chloroethane	mg/kg	ND	0.010	0.0021	11/27/19 10:53	IK
Chloroform	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
Chloromethane	mg/kg	ND	0.010	0.0033	11/27/19 10:53	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00087	11/27/19 10:53	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	0.0023	11/27/19 10:53	
Dibromochloromethane	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

METHOD BLANK: 2746337

Matrix: Solid

Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
Dichlorodifluoromethane	mg/kg	ND	0.010	0.0041	11/27/19 10:53	
Diisopropyl ether	mg/kg	ND	0.0050	0.0029	11/27/19 10:53	
Ethylbenzene	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	0.0014	11/27/19 10:53	
m&p-Xylene	mg/kg	ND	0.010	0.0024	11/27/19 10:53	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	0.0029	11/27/19 10:53	
Methylene Chloride	mg/kg	0.014J	0.020	0.0059	11/27/19 10:53	IH,v1
n-Butylbenzene	mg/kg	ND	0.0050	0.0028	11/27/19 10:53	
n-Propylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
Naphthalene	mg/kg	ND	0.0050	0.0042	11/27/19 10:53	
o-Xylene	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
p-Isopropyltoluene	mg/kg	ND	0.0050	0.0024	11/27/19 10:53	
sec-Butylbenzene	mg/kg	ND	0.0050	0.0021	11/27/19 10:53	
Styrene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
tert-Butylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	v2
Tetrachloroethene	mg/kg	ND	0.0050	0.0016	11/27/19 10:53	
Toluene	mg/kg	ND	0.0050	0.0016	11/27/19 10:53	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00098	11/27/19 10:53	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	0.00088	11/27/19 10:53	
Trichloroethene	mg/kg	ND	0.0050	0.0013	11/27/19 10:53	
Trichlorofluoromethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
Vinyl acetate	mg/kg	ND	0.050	0.016	11/27/19 10:53	
Vinyl chloride	mg/kg	ND	0.010	0.0019	11/27/19 10:53	
Xylene (Total)	mg/kg	ND	0.010	0.0035	11/27/19 10:53	
1,2-Dichloroethane-d4 (S)	%	95	70-132		11/27/19 10:53	
4-Bromofluorobenzene (S)	%	105	70-130		11/27/19 10:53	
Toluene-d8 (S)	%	105	70-130		11/27/19 10:53	

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.050	100	70-130	
1,1,1-Trichloroethane	mg/kg	0.05	0.050	101	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.049	98	55-130	
1,1,2-Trichloroethane	mg/kg	0.05	0.049	98	70-130	
1,1-Dichloroethane	mg/kg	0.05	0.047	93	68-130	
1,1-Dichloroethene	mg/kg	0.05	0.049	98	70-130	
1,1-Dichloropropene	mg/kg	0.05	0.054	109	70-130	
1,2,3-Trichlorobenzene	mg/kg	0.05	0.046	93	70-130	
1,2,3-Trichloropropane	mg/kg	0.05	0.050	99	70-130	
1,2,4-Trichlorobenzene	mg/kg	0.05	0.047	93	70-130	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.048	96	69-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454745

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	0.05	0.049	99	57-141	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.050	100	70-130	
1,2-Dichlorobenzene	mg/kg	0.05	0.046	92	70-130	
1,2-Dichloroethane	mg/kg	0.05	0.046	92	70-130	
1,2-Dichloropropane	mg/kg	0.05	0.048	96	70-130	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.048	96	70-130	
1,3-Dichlorobenzene	mg/kg	0.05	0.048	95	70-130	
1,3-Dichloropropane	mg/kg	0.05	0.050	100	70-130	
1,4-Dichlorobenzene	mg/kg	0.05	0.047	94	70-130	
2,2-Dichloropropane	mg/kg	0.05	0.050	101	70-130	
2-Butanone (MEK)	mg/kg	0.1	0.10J	100	60-130	
2-Chlorotoluene	mg/kg	0.05	0.049	97	70-130	
2-Hexanone	mg/kg	0.1	0.10	105	70-132	
4-Chlorotoluene	mg/kg	0.05	0.048	96	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.1	0.10	102	69-130	
Acetone	mg/kg	0.1	0.095J	95	49-148	
Benzene	mg/kg	0.05	0.050	99	70-130	
Bromobenzene	mg/kg	0.05	0.047	95	70-130	
Bromochloromethane	mg/kg	0.05	0.044	87	70-130	
Bromodichloromethane	mg/kg	0.05	0.048	97	70-130	
Bromoform	mg/kg	0.05	0.050	100	68-136	
Bromomethane	mg/kg	0.05	0.055	110	60-140	IH
Carbon tetrachloride	mg/kg	0.05	0.051	101	70-130	
Chlorobenzene	mg/kg	0.05	0.049	98	70-130	
Chloroethane	mg/kg	0.05	0.057	114	51-147	IK
Chloroform	mg/kg	0.05	0.046	93	70-130	
Chloromethane	mg/kg	0.05	0.053	106	48-130	
cis-1,2-Dichloroethene	mg/kg	0.05	0.046	93	70-130	
cis-1,3-Dichloropropene	mg/kg	0.05	0.049	98	70-130	
Dibromochloromethane	mg/kg	0.05	0.051	102	70-130	
Dibromomethane	mg/kg	0.05	0.046	91	70-130	
Dichlorodifluoromethane	mg/kg	0.05	0.054	109	49-130	
Diisopropyl ether	mg/kg	0.05	0.048	96	66-130	
Ethylbenzene	mg/kg	0.05	0.050	100	70-130	
Hexachloro-1,3-butadiene	mg/kg	0.05	0.049	99	70-130	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.051	102	70-130	
m&p-Xylene	mg/kg	0.1	0.10	100	70-130	
Methyl-tert-butyl ether	mg/kg	0.05	0.049	98	70-130	
Methylene Chloride	mg/kg	0.05	0.064	128	50-137	IH,v1
n-Butylbenzene	mg/kg	0.05	0.049	98	70-130	
n-Propylbenzene	mg/kg	0.05	0.050	100	70-130	
Naphthalene	mg/kg	0.05	0.047	94	70-131	
o-Xylene	mg/kg	0.05	0.050	100	70-130	
p-Isopropyltoluene	mg/kg	0.05	0.049	99	70-130	
sec-Butylbenzene	mg/kg	0.05	0.050	100	70-130	
Styrene	mg/kg	0.05	0.050	99	70-130	
tert-Butylbenzene	mg/kg	0.05	0.050	100	69-130	v3

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	0.05	0.051	102	56-130	
Toluene	mg/kg	0.05	0.047	93	70-130	
trans-1,2-Dichloroethene	mg/kg	0.05	0.047	94	70-130	
trans-1,3-Dichloropropene	mg/kg	0.05	0.050	100	70-130	
Trichloroethene	mg/kg	0.05	0.052	104	70-141	
Trichlorofluoromethane	mg/kg	0.05	0.057	114	67-130	
Vinyl acetate	mg/kg	0.1	0.096	96	10-136	
Vinyl chloride	mg/kg	0.05	0.055	109	67-130	
Xylene (Total)	mg/kg	0.15	0.15	100	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2746340

Parameter	Units	92454745002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.016	0.0090	56	52-133	
1,1,1-Trichloroethane	mg/kg	ND	0.016	0.0084	52	49-137	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.016	0.012	72	39-150	
1,1,2-Trichloroethane	mg/kg	ND	0.016	0.011	70	48-140	
1,1-Dichloroethane	mg/kg	ND	0.016	0.0096	60	46-135	
1,1-Dichloroethene	mg/kg	ND	0.016	0.0090	56	38-149	
1,1-Dichloropropene	mg/kg	ND	0.016	0.0084	52	41-140	
1,2,3-Trichlorobenzene	mg/kg	ND	0.016	0.010	64	10-158	
1,2,3-Trichloropropane	mg/kg	ND	0.016	0.012	75	33-157	
1,2,4-Trichlorobenzene	mg/kg	ND	0.016	0.0099	61	10-155	
1,2,4-Trimethylbenzene	mg/kg	ND	0.016	0.0091	57	24-154	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.016	0.013	81	33-158	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.016	0.011	66	40-136	
1,2-Dichlorobenzene	mg/kg	ND	0.016	0.010	63	27-146	
1,2-Dichloroethane	mg/kg	ND	0.016	0.011	69	49-140	
1,2-Dichloropropane	mg/kg	ND	0.016	0.010	62	44-143	
1,3,5-Trimethylbenzene	mg/kg	ND	0.016	0.0087	54	40-144	
1,3-Dichlorobenzene	mg/kg	ND	0.016	0.0097	60	33-140	
1,3-Dichloropropane	mg/kg	ND	0.016	0.011	66	47-147	
1,4-Dichlorobenzene	mg/kg	ND	0.016	0.010	62	35-139	
2,2-Dichloropropane	mg/kg	ND	0.016	0.0086	53	41-140	
2-Butanone (MEK)	mg/kg	ND	0.032	0.021J	64	10-181	
2-Chlorotoluene	mg/kg	ND	0.016	0.0092	57	38-147	
2-Hexanone	mg/kg	ND	0.032	0.025J	76	18-169	
4-Chlorotoluene	mg/kg	ND	0.016	0.0092	57	36-145	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.032	0.025J	78	16-175	
Acetone	mg/kg	ND	0.032	0.029J	89	10-200	
Benzene	mg/kg	ND	0.016	0.0094	58	46-136	
Bromobenzene	mg/kg	ND	0.016	0.011	67	38-149	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

MATRIX SPIKE SAMPLE: 2746340		92454745002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	0.016	0.010	65	44-142	
Bromodichloromethane	mg/kg	ND	0.016	0.0099	62	41-140	
Bromoform	mg/kg	ND	0.016	0.010	65	34-145	
Bromomethane	mg/kg	ND	0.016	0.0084	52	14-162	IH
Carbon tetrachloride	mg/kg	ND	0.016	0.011	67	44-141	
Chlorobenzene	mg/kg	ND	0.016	0.0095	59	39-141	
Chloroethane	mg/kg	ND	0.016	0.011	70	10-182	IK
Chloroform	mg/kg	ND	0.016	0.010	64	45-140	
Chloromethane	mg/kg	ND	0.016	0.010	62	19-149	
cis-1,2-Dichloroethene	mg/kg	ND	0.016	0.0094	58	38-150	
cis-1,3-Dichloropropene	mg/kg	ND	0.016	0.0099	61	30-144	
Dibromochloromethane	mg/kg	ND	0.016	0.010	63	36-145	
Dibromomethane	mg/kg	ND	0.016	0.012	74	41-145	
Dichlorodifluoromethane	mg/kg	ND	0.016	0.0091	57	16-146	
Diisopropyl ether	mg/kg	ND	0.016	0.0097	60	41-143	
Ethylbenzene	mg/kg	ND	0.016	0.0092	57	35-144	
Hexachloro-1,3-butadiene	mg/kg	ND	0.016	0.0081	50	10-160	
Isopropylbenzene (Cumene)	mg/kg	ND	0.016	0.0086	53	30-152	
m&p-Xylene	mg/kg	ND	0.032	0.018	56	33-145	
Methyl-tert-butyl ether	mg/kg	ND	0.016	0.011	68	49-140	
Methylene Chloride	mg/kg	ND	0.016	0.011J	66	10-174	IH,v1
n-Butylbenzene	mg/kg	ND	0.016	0.0081	50	10-160	
n-Propylbenzene	mg/kg	ND	0.016	0.0085	53	24-159	
Naphthalene	mg/kg	ND	0.016	0.012	73	10-171	
o-Xylene	mg/kg	ND	0.016	0.0096	59	31-150	
p-Isopropyltoluene	mg/kg	ND	0.016	0.0083	52	21-154	
sec-Butylbenzene	mg/kg	ND	0.016	0.0082	51	19-159	
Styrene	mg/kg	ND	0.016	0.0098	61	15-152	
tert-Butylbenzene	mg/kg	ND	0.016	0.0073	45	31-141	v3
Tetrachloroethene	mg/kg	ND	0.016	0.0077	48	19-141	
Toluene	mg/kg	ND	0.016	0.0094	59	31-146	
trans-1,2-Dichloroethene	mg/kg	ND	0.016	0.010	62	28-157	
trans-1,3-Dichloropropene	mg/kg	ND	0.016	0.010	64	25-146	
Trichloroethene	mg/kg	ND	0.016	0.0087	54	34-149	
Trichlorofluoromethane	mg/kg	ND	0.016	0.0093	58	10-167	
Vinyl acetate	mg/kg	ND	0.032	0.025J	78	10-200	
Vinyl chloride	mg/kg	ND	0.016	0.010	64	36-155	
Xylene (Total)	mg/kg	ND	0.049	0.028	57	29-148	
1,2-Dichloroethane-d4 (S)	%				99	70-132	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				103	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

SAMPLE DUPLICATE: 2746339

Parameter	Units	92454745001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	IH
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	IK
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454745

SAMPLE DUPLICATE: 2746339

Parameter	Units	92454745001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	IH,v1
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	v2
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	91			
4-Bromofluorobenzene (S)	%	108	102			
Toluene-d8 (S)	%	105	105			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 512130 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Associated Lab Samples: 92454745006

METHOD BLANK: 2746406 Matrix: Water  
Associated Lab Samples: 92454745006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	11/27/19 16:25	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	11/27/19 16:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	11/27/19 16:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	11/27/19 16:25	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	11/27/19 16:25	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	11/27/19 16:25	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	11/27/19 16:25	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	11/27/19 16:25	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	11/27/19 16:25	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	11/27/19 16:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	0.26	11/27/19 16:25	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.26	11/27/19 16:25	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	11/27/19 16:25	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	11/27/19 16:25	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	11/27/19 16:25	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	11/27/19 16:25	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	11/27/19 16:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	11/27/19 16:25	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	11/27/19 16:25	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	11/27/19 16:25	
2-Chlorotoluene	ug/L	ND	1.0	0.20	11/27/19 16:25	
2-Hexanone	ug/L	ND	5.0	0.57	11/27/19 16:25	
4-Chlorotoluene	ug/L	ND	1.0	0.20	11/27/19 16:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	11/27/19 16:25	
Acetone	ug/L	ND	25.0	6.2	11/27/19 16:25	
Benzene	ug/L	ND	1.0	0.15	11/27/19 16:25	
Bromobenzene	ug/L	ND	1.0	0.22	11/27/19 16:25	
Bromochloromethane	ug/L	ND	1.0	0.34	11/27/19 16:25	
Bromodichloromethane	ug/L	ND	1.0	0.26	11/27/19 16:25	
Bromoform	ug/L	ND	1.0	0.62	11/27/19 16:25	
Bromomethane	ug/L	ND	2.0	0.62	11/27/19 16:25	IH
Carbon tetrachloride	ug/L	ND	1.0	0.22	11/27/19 16:25	
Chlorobenzene	ug/L	ND	1.0	0.23	11/27/19 16:25	
Chloroethane	ug/L	ND	1.0	0.49	11/27/19 16:25	
Chloroform	ug/L	ND	5.0	2.3	11/27/19 16:25	
Chloromethane	ug/L	ND	1.0	0.39	11/27/19 16:25	IK
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	11/27/19 16:25	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	11/27/19 16:25	
Dibromochloromethane	ug/L	ND	1.0	0.41	11/27/19 16:25	
Dibromomethane	ug/L	ND	1.0	0.46	11/27/19 16:25	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	11/27/19 16:25	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

METHOD BLANK: 2746406

Matrix: Water

Associated Lab Samples: 92454745006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	11/27/19 16:25	
Ethylbenzene	ug/L	ND	1.0	0.26	11/27/19 16:25	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	11/27/19 16:25	
m&p-Xylene	ug/L	ND	2.0	0.41	11/27/19 16:25	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	11/27/19 16:25	
Methylene Chloride	ug/L	ND	5.0	3.7	11/27/19 16:25	
Naphthalene	ug/L	ND	1.0	0.35	11/27/19 16:25	
o-Xylene	ug/L	ND	1.0	0.22	11/27/19 16:25	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	11/27/19 16:25	
Styrene	ug/L	ND	1.0	0.27	11/27/19 16:25	
Tetrachloroethene	ug/L	ND	1.0	0.16	11/27/19 16:25	
Toluene	ug/L	0.79J	1.0	0.24	11/27/19 16:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	11/27/19 16:25	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	11/27/19 16:25	
Trichloroethene	ug/L	ND	1.0	0.22	11/27/19 16:25	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	11/27/19 16:25	
Vinyl acetate	ug/L	ND	2.0	1.4	11/27/19 16:25	
Vinyl chloride	ug/L	ND	1.0	0.24	11/27/19 16:25	
Xylene (Total)	ug/L	ND	1.0	0.63	11/27/19 16:25	
1,2-Dichloroethane-d4 (S)	%	103	70-130		11/27/19 16:25	
4-Bromofluorobenzene (S)	%	103	70-130		11/27/19 16:25	
Toluene-d8 (S)	%	89	70-130		11/27/19 16:25	

LABORATORY CONTROL SAMPLE: 2746407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	70-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	48.1	96	70-130	
1,1-Dichloropropene	ug/L	50	51.4	103	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.5	101	70-130	
1,2,3-Trichloropropane	ug/L	50	51.7	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.3	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	45.5	91	70-130	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,3-Dichloropropane	ug/L	50	52.0	104	70-131	
1,4-Dichlorobenzene	ug/L	50	46.8	94	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

LABORATORY CONTROL SAMPLE: 2746407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.2	98	69-130	
2-Butanone (MEK)	ug/L	100	99.1	99	64-135	
2-Chlorotoluene	ug/L	50	50.4	101	70-130	
2-Hexanone	ug/L	100	107	107	66-135	
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.2	92	70-130	
Acetone	ug/L	100	114	114	61-157	
Benzene	ug/L	50	47.6	95	70-130	
Bromobenzene	ug/L	50	47.3	95	70-130	
Bromochloromethane	ug/L	50	46.9	94	70-130	
Bromodichloromethane	ug/L	50	44.7	89	70-130	
Bromoform	ug/L	50	56.2	112	70-130	
Bromomethane	ug/L	50	68.3	137	38-130	IH,L1
Carbon tetrachloride	ug/L	50	48.0	96	70-130	
Chlorobenzene	ug/L	50	47.6	95	70-130	
Chloroethane	ug/L	50	41.3	83	37-142	
Chloroform	ug/L	50	50.2	100	70-130	
Chloromethane	ug/L	50	50.7	101	48-130	IK
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Dibromochloromethane	ug/L	50	54.1	108	70-130	
Dibromomethane	ug/L	50	42.9	86	70-130	
Dichlorodifluoromethane	ug/L	50	54.7	109	53-134	
Diisopropyl ether	ug/L	50	51.5	103	70-135	
Ethylbenzene	ug/L	50	47.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.1	102	68-132	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	50.4	101	70-130	
Methylene Chloride	ug/L	50	45.7	91	67-132	
Naphthalene	ug/L	50	52.9	106	70-130	
o-Xylene	ug/L	50	55.1	110	70-131	
p-Isopropyltoluene	ug/L	50	50.3	101	70-130	
Styrene	ug/L	50	53.6	107	70-130	
Tetrachloroethene	ug/L	50	46.4	93	69-130	
Toluene	ug/L	50	44.3	89	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Trichloroethene	ug/L	50	48.1	96	70-130	
Trichlorofluoromethane	ug/L	50	39.2	78	63-130	
Vinyl acetate	ug/L	100	113	113	55-143	
Vinyl chloride	ug/L	50	49.4	99	70-131	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			94	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

Parameter	Units	2746417		2746418		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92454959005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	24.2	108	121	73-134	12	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	24.8	115	124	82-143	7	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	22.3	104	112	70-136	7	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.8	23.7	109	118	70-135	8	30		
1,1-Dichloroethane	ug/L	1.4	20	20	23.0	24.9	108	117	70-139	8	30		
1,1-Dichloroethene	ug/L	1.2	20	20	23.5	25.4	111	121	70-154	8	30		
1,1-Dichloropropene	ug/L	ND	20	20	23.7	26.0	118	130	70-149	9	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	22.2	99	111	70-135	11	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.0	23.0	105	115	71-137	9	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	21.9	99	109	73-140	10	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.6	23.7	108	118	65-134	9	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.6	24.0	108	120	70-137	10	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	19.7	22.2	99	111	70-133	12	30		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	22.5	104	113	70-137	8	30		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	23.0	108	115	70-140	7	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	19.8	22.0	99	110	70-135	10	30		
1,3-Dichloropropane	ug/L	ND	20	20	22.0	23.7	110	118	70-143	7	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	19.5	21.9	98	110	70-133	12	30		
2,2-Dichloropropane	ug/L	ND	20	20	23.2	25.6	116	128	61-148	10	30		
2-Butanone (MEK)	ug/L	ND	40	40	41.0	44.3	102	111	60-139	8	30		
2-Chlorotoluene	ug/L	ND	20	20	19.8	21.8	99	109	70-144	10	30		
2-Hexanone	ug/L	ND	40	40	41.3	44.3	103	111	65-138	7	30		
4-Chlorotoluene	ug/L	ND	20	20	19.7	22.1	98	110	70-137	11	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.8	45.4	104	114	65-135	8	30		
Acetone	ug/L	ND	40	40	37.2	42.6	93	106	60-148	13	30		
Benzene	ug/L	ND	20	20	21.8	23.3	109	117	70-151	7	30		
Bromobenzene	ug/L	ND	20	20	20.8	23.3	104	116	70-136	11	30		
Bromochloromethane	ug/L	ND	20	20	23.4	25.9	117	130	70-141	10	30		
Bromodichloromethane	ug/L	ND	20	20	21.7	23.5	108	117	70-138	8	30		
Bromoform	ug/L	ND	20	20	22.0	24.2	110	121	63-130	9	30		
Bromomethane	ug/L	ND	20	20	25.0	26.1	125	131	15-152	4	30		
Carbon tetrachloride	ug/L	ND	20	20	23.0	24.7	115	124	70-143	7	30		
Chlorobenzene	ug/L	ND	20	20	20.6	22.5	103	112	70-138	9	30		
Chloroethane	ug/L	ND	20	20	19.9	21.6	100	108	52-163	8	30		
Chloroform	ug/L	ND	20	20	22.7	24.4	113	122	70-139	7	30		
Chloromethane	ug/L	ND	20	20	20.5	21.9	102	110	41-139	7	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.1	23.6	106	118	70-141	11	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	24.2	112	121	70-137	8	30		
Dibromochloromethane	ug/L	ND	20	20	22.1	24.1	111	120	70-134	8	30		
Dibromomethane	ug/L	ND	20	20	22.0	24.5	110	123	70-138	11	30		
Dichlorodifluoromethane	ug/L	ND	20	20	24.8	26.3	124	131	47-155	6	30		
Diisopropyl ether	ug/L	ND	20	20	21.3	24.1	106	121	63-144	13	30		
Ethylbenzene	ug/L	ND	20	20	20.6	22.4	103	112	66-153	8	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.9	22.8	114	114	65-149	0	30		

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454745

Parameter	Units	2746417		2746418		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
m&p-Xylene	ug/L	ND	40	40	40.8	44.5	102	111	69-152	9	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	22.1	24.6	110	123	54-156	11	30		
Methylene Chloride	ug/L	ND	20	20	20.6	23.1	103	115	42-159	11	30		
Naphthalene	ug/L	ND	20	20	19.2	22.1	96	111	61-148	14	30		
o-Xylene	ug/L	ND	20	20	20.7	22.9	103	114	70-148	10	30		
p-Isopropyltoluene	ug/L	ND	20	20	19.9	21.3	100	107	70-146	7	30		
Styrene	ug/L	ND	20	20	20.3	22.3	101	112	70-135	10	30		
Tetrachloroethene	ug/L	ND	20	20	21.9	23.3	110	117	59-143	6	30		
Toluene	ug/L	ND	20	20	20.6	22.9	103	114	59-148	10	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.0	24.2	110	121	70-146	10	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.3	24.5	112	123	70-135	9	30		
Trichloroethene	ug/L	ND	20	20	22.0	23.8	110	119	70-147	8	30		
Trichlorofluoromethane	ug/L	ND	20	20	22.3	23.7	111	119	70-148	6	30		
Vinyl acetate	ug/L	ND	40	40	41.1	45.3	103	113	49-151	10	30		
Vinyl chloride	ug/L	ND	20	20	24.8	26.5	124	133	70-156	7	30		
Xylene (Total)	ug/L	ND	60	60	61.5	67.4	102	112	63-158	9	30		
1,2-Dichloroethane-d4 (S)	%							96	99	70-130			
4-Bromofluorobenzene (S)	%							100	100	70-130			
Toluene-d8 (S)	%							99	98	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 511424 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92454745006

METHOD BLANK: 2743471 Matrix: Water  
Associated Lab Samples: 92454745006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.2	11/23/19 19:22	
1,2-Dichloroethane-d4 (S)	%	98	50-150		11/23/19 19:22	
Toluene-d8 (S)	%	109	50-150		11/23/19 19:22	

LABORATORY CONTROL SAMPLE: 2743472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.8	94	70-130	
1,2-Dichloroethane-d4 (S)	%			101	50-150	
Toluene-d8 (S)	%			107	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743473 2743474

Parameter	Units	92454805004 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	79.9	20	20	97.3	98.5	87	93	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						120	116	50-150		30	
Toluene-d8 (S)	%						109	108	50-150		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 511556 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV Soil SIM  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

METHOD BLANK: 2743926 Matrix: Solid  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	0.010	0.0030	11/25/19 11:15	
1,2-Dichloroethane-d4 (S)	%	103	50-150		11/25/19 11:15	
Toluene-d8 (S)	%	99	50-150		11/25/19 11:15	

LABORATORY CONTROL SAMPLE: 2743927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.04	0.040	99	50-150	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE SAMPLE: 2744454

Parameter	Units	92454623002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.0047J	0.045	0.052	104	50-150	
1,2-Dichloroethane-d4 (S)	%				95	50-150	
Toluene-d8 (S)	%				105	50-150	

SAMPLE DUPLICATE: 2744453

Parameter	Units	92454623001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	95		30	
Toluene-d8 (S)	%	100	109		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

QC Batch: 511777 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

METHOD BLANK: 2744914 Matrix: Solid  
Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	0.076	11/26/19 20:28	
1,2-Dichlorobenzene	mg/kg	ND	0.33	0.071	11/26/19 20:28	
1,3-Dichlorobenzene	mg/kg	ND	0.33	0.074	11/26/19 20:28	
1,4-Dichlorobenzene	mg/kg	ND	0.33	0.073	11/26/19 20:28	
1-Methylnaphthalene	mg/kg	ND	0.33	0.088	11/26/19 20:28	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	0.33	0.092	11/26/19 20:28	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	0.086	11/26/19 20:28	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	0.083	11/26/19 20:28	
2,4-Dichlorophenol	mg/kg	ND	0.33	0.11	11/26/19 20:28	
2,4-Dimethylphenol	mg/kg	ND	0.33	0.082	11/26/19 20:28	
2,4-Dinitrophenol	mg/kg	ND	1.6	1.1	11/26/19 20:28	
2,4-Dinitrotoluene	mg/kg	ND	0.33	0.087	11/26/19 20:28	
2,6-Dinitrotoluene	mg/kg	ND	0.33	0.086	11/26/19 20:28	
2-Chloronaphthalene	mg/kg	ND	0.33	0.074	11/26/19 20:28	
2-Chlorophenol	mg/kg	ND	0.33	0.077	11/26/19 20:28	
2-Methylnaphthalene	mg/kg	ND	0.33	0.084	11/26/19 20:28	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	0.073	11/26/19 20:28	
2-Nitroaniline	mg/kg	ND	1.6	0.17	11/26/19 20:28	
2-Nitrophenol	mg/kg	ND	0.33	0.10	11/26/19 20:28	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.33	0.083	11/26/19 20:28	
3,3'-Dichlorobenzidine	mg/kg	ND	1.6	0.23	11/26/19 20:28	
3-Nitroaniline	mg/kg	ND	1.6	0.18	11/26/19 20:28	
4,6-Dinitro-2-methylphenol	mg/kg	ND	0.66	0.53	11/26/19 20:28	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	0.087	11/26/19 20:28	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	0.20	11/26/19 20:28	
4-Chloroaniline	mg/kg	ND	1.6	0.20	11/26/19 20:28	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	0.086	11/26/19 20:28	
4-Nitroaniline	mg/kg	ND	0.66	0.16	11/26/19 20:28	
4-Nitrophenol	mg/kg	ND	1.6	0.53	11/26/19 20:28	
Acenaphthene	mg/kg	ND	0.33	0.085	11/26/19 20:28	
Acenaphthylene	mg/kg	ND	0.33	0.078	11/26/19 20:28	
Aniline	mg/kg	ND	0.33	0.074	11/26/19 20:28	
Anthracene	mg/kg	ND	0.33	0.086	11/26/19 20:28	
Benzo(a)anthracene	mg/kg	ND	0.33	0.10	11/26/19 20:28	
Benzo(a)pyrene	mg/kg	ND	0.33	0.14	11/26/19 20:28	
Benzo(b)fluoranthene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Benzo(k)fluoranthene	mg/kg	ND	0.33	0.14	11/26/19 20:28	
Benzoic Acid	mg/kg	ND	1.6	0.36	11/26/19 20:28	
Benzyl alcohol	mg/kg	ND	0.66	0.18	11/26/19 20:28	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	0.088	11/26/19 20:28	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

METHOD BLANK: 2744914

Matrix: Solid

Associated Lab Samples: 92454745001, 92454745002, 92454745003, 92454745004, 92454745005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	0.070	11/26/19 20:28	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	0.11	11/26/19 20:28	
Butylbenzylphthalate	mg/kg	ND	0.33	0.088	11/26/19 20:28	
Chrysene	mg/kg	ND	0.33	0.096	11/26/19 20:28	
Di-n-butylphthalate	mg/kg	ND	0.33	0.081	11/26/19 20:28	
Di-n-octylphthalate	mg/kg	ND	0.33	0.19	11/26/19 20:28	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Dibenzofuran	mg/kg	ND	0.33	0.082	11/26/19 20:28	
Diethylphthalate	mg/kg	ND	0.33	0.072	11/26/19 20:28	
Dimethylphthalate	mg/kg	ND	0.33	0.075	11/26/19 20:28	
Fluoranthene	mg/kg	ND	0.33	0.10	11/26/19 20:28	
Fluorene	mg/kg	ND	0.33	0.088	11/26/19 20:28	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	0.080	11/26/19 20:28	
Hexachlorobenzene	mg/kg	ND	0.33	0.084	11/26/19 20:28	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Hexachloroethane	mg/kg	ND	0.33	0.075	11/26/19 20:28	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	0.15	11/26/19 20:28	
Isophorone	mg/kg	ND	0.33	0.072	11/26/19 20:28	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	0.092	11/26/19 20:28	
N-Nitrosodimethylamine	mg/kg	ND	0.33	0.093	11/26/19 20:28	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	0.084	11/26/19 20:28	
Naphthalene	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Nitrobenzene	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Pentachlorophenol	mg/kg	ND	1.6	0.15	11/26/19 20:28	
Phenanthrene	mg/kg	ND	0.33	0.083	11/26/19 20:28	
Phenol	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Pyrene	mg/kg	ND	0.33	0.091	11/26/19 20:28	
Pyridine	mg/kg	ND	0.33	0.084	11/26/19 20:28	
2,4,6-Tribromophenol (S)	%	97	27-110		11/26/19 20:28	
2-Fluorobiphenyl (S)	%	83	30-110		11/26/19 20:28	
2-Fluorophenol (S)	%	82	13-110		11/26/19 20:28	
Nitrobenzene-d5 (S)	%	80	23-110		11/26/19 20:28	
Phenol-d6 (S)	%	79	22-110		11/26/19 20:28	
Terphenyl-d14 (S)	%	95	28-110		11/26/19 20:28	

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.7	1.4	86	52-130	
1,2-Dichlorobenzene	mg/kg	1.7	1.4	86	51-130	
1,3-Dichlorobenzene	mg/kg	1.7	1.4	85	50-130	
1,4-Dichlorobenzene	mg/kg	1.7	1.4	84	49-130	
1-Methylnaphthalene	mg/kg	1.7	1.5	87	55-130	
2,2'-Oxybis(1-chloropropane)	mg/kg	1.7	1.3	78	30-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	mg/kg	1.7	1.5	88	55-130	
2,4,6-Trichlorophenol	mg/kg	1.7	1.5	92	57-130	
2,4-Dichlorophenol	mg/kg	1.7	1.5	88	56-130	
2,4-Dimethylphenol	mg/kg	1.7	1.5	90	51-130	
2,4-Dinitrophenol	mg/kg	8.4	7.3	87	27-133	
2,4-Dinitrotoluene	mg/kg	1.7	1.5	92	61-130	
2,6-Dinitrotoluene	mg/kg	1.7	1.5	92	60-130	
2-Chloronaphthalene	mg/kg	1.7	1.5	89	52-130	
2-Chlorophenol	mg/kg	1.7	1.5	87	54-130	
2-Methylnaphthalene	mg/kg	1.7	1.5	89	54-130	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.4	84	51-130	
2-Nitroaniline	mg/kg	3.3	3.0	90	51-130	
2-Nitrophenol	mg/kg	1.7	1.5	88	49-130	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.4	83	11-163	
3,3'-Dichlorobenzidine	mg/kg	3.3	2.5	75	10-132	
3-Nitroaniline	mg/kg	3.3	2.6	78	55-130	
4,6-Dinitro-2-methylphenol	mg/kg	3.3	3.6	107	47-142	
4-Bromophenylphenyl ether	mg/kg	1.7	1.5	91	59-130	
4-Chloro-3-methylphenol	mg/kg	3.3	2.9	88	55-130	
4-Chloroaniline	mg/kg	3.3	2.9	86	54-130	
4-Chlorophenylphenyl ether	mg/kg	1.7	1.5	90	58-130	
4-Nitroaniline	mg/kg	3.3	2.8	83	54-130	
4-Nitrophenol	mg/kg	8.4	6.9	83	48-130	
Acenaphthene	mg/kg	1.7	1.6	95	60-130	
Acenaphthylene	mg/kg	1.7	1.7	101	60-130	
Aniline	mg/kg	1.7	1.3	81	43-130	
Anthracene	mg/kg	1.7	1.7	101	63-130	
Benzo(a)anthracene	mg/kg	1.7	1.6	93	59-130	
Benzo(a)pyrene	mg/kg	1.7	1.8	105	57-130	
Benzo(b)fluoranthene	mg/kg	1.7	1.7	100	54-130	
Benzo(g,h,i)perylene	mg/kg	1.7	1.8	108	59-130	
Benzo(k)fluoranthene	mg/kg	1.7	1.7	103	54-130	
Benzoic Acid	mg/kg	8.4	6.2	74	19-130	
Benzyl alcohol	mg/kg	3.3	2.8	85	50-130	
bis(2-Chloroethoxy)methane	mg/kg	1.7	1.5	87	54-130	
bis(2-Chloroethyl) ether	mg/kg	1.7	1.5	92	48-130	
bis(2-Ethylhexyl)phthalate	mg/kg	1.7	1.4	86	45-134	
Butylbenzylphthalate	mg/kg	1.7	1.5	87	46-138	
Chrysene	mg/kg	1.7	1.5	89	58-130	
Di-n-butylphthalate	mg/kg	1.7	1.4	86	60-130	
Di-n-octylphthalate	mg/kg	1.7	1.5	91	53-130	
Dibenz(a,h)anthracene	mg/kg	1.7	1.7	102	59-130	
Dibenzofuran	mg/kg	1.7	1.5	90	60-130	
Diethylphthalate	mg/kg	1.7	1.4	85	60-130	
Dimethylphthalate	mg/kg	1.7	1.4	86	60-130	
Fluoranthene	mg/kg	1.7	1.6	95	65-130	
Fluorene	mg/kg	1.7	1.6	94	63-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454745

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	1.7	1.4	86	46-130	
Hexachlorobenzene	mg/kg	1.7	1.5	92	58-130	
Hexachlorocyclopentadiene	mg/kg	1.7	1.8	107	23-130	
Hexachloroethane	mg/kg	1.7	1.5	87	47-130	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.7	104	60-130	
Isophorone	mg/kg	1.7	1.4	86	49-130	
N-Nitroso-di-n-propylamine	mg/kg	1.7	1.4	86	47-130	
N-Nitrosodimethylamine	mg/kg	1.7	1.5	91	45-130	
N-Nitrosodiphenylamine	mg/kg	1.7	1.5	87	59-130	
Naphthalene	mg/kg	1.7	1.5	91	55-130	
Nitrobenzene	mg/kg	1.7	1.4	86	49-130	
Pentachlorophenol	mg/kg	3.3	2.9	88	10-132	
Phenanthrene	mg/kg	1.7	1.6	97	62-130	
Phenol	mg/kg	1.7	1.6	95	46-130	
Pyrene	mg/kg	1.7	1.6	98	53-130	
Pyridine	mg/kg	1.7	1.1	67	37-130	
2,4,6-Tribromophenol (S)	%			111	27-110	S0
2-Fluorobiphenyl (S)	%			96	30-110	
2-Fluorophenol (S)	%			95	13-110	
Nitrobenzene-d5 (S)	%			88	23-110	
Phenol-d6 (S)	%			94	22-110	
Terphenyl-d14 (S)	%			99	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744916 2744917

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92449762007 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.3J	74	76	18-130		30	
1,2-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.2J	68	73	14-130		30	
1,3-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	65	73	12-130		30	
1,4-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	65	69	10-130		30	
1-Methylnaphthalene	mg/kg	ND	1.7	1.7	1.7	1.6J	1.6J	15	10	12-130		30	M1
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	1.7	1.7	1.7	1.1J	1.1J	64	67	10-130		30	
2,4,5-Trichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	63	72	13-130		30	
2,4,6-Trichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	66	71	17-130		30	
2,4-Dichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.2J	1.2J	69	73	10-130		30	
2,4-Dimethylphenol	mg/kg	ND	1.7	1.7	1.7	2.0	1.7	117	99	10-130	16	30	
2,4-Dinitrophenol	mg/kg	ND	8.4	8.4	8.4	ND	ND	41	41	10-130		30	
2,4-Dinitrotoluene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	64	71	24-130		30	
2,6-Dinitrotoluene	mg/kg	ND	1.7	1.7	1.7	1.9	1.6J	114	94	23-130		30	
2-Chloronaphthalene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.3J	74	75	19-130		30	
2-Chlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	67	72	10-130		30	
2-Methylnaphthalene	mg/kg	ND	1.7	1.7	1.7	1.4J	1.4J	46	44	18-130		30	
2-Methylphenol(o-Cresol)	mg/kg	ND	1.7	1.7	1.7	1.0J	1.1J	62	63	10-130		30	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454745

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2744916			2744917								
Parameter	Units	92449762007	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
2-Nitroaniline	mg/kg	ND	3.4	3.4	1.9J	2.0J	56	59	17-130			30	
2-Nitrophenol	mg/kg	ND	1.7	1.7	1.2J	1.3J	73	78	10-130			30	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	1.7	1.7	1.0J	1.1J	60	64	10-130			30	
3,3'-Dichlorobenzidine	mg/kg	ND	3.4	3.4	ND	ND	30	21	10-130			30	
3-Nitroaniline	mg/kg	ND	3.4	3.4	2.7J	3.5J	79	103	24-130			30	
4,6-Dinitro-2-methylphenol	mg/kg	ND	3.4	3.4	ND	ND	50	62	10-152			30	
4-Bromophenylphenyl ether	mg/kg	ND	1.7	1.7	1.4J	1.5J	82	89	29-130			30	
4-Chloro-3-methylphenol	mg/kg	ND	3.4	3.4	2.1J	2.3J	62	68	17-130			30	
4-Chloroaniline	mg/kg	ND	3.4	3.4	1.9J	2.1J	58	63	14-130			30	
4-Chlorophenylphenyl ether	mg/kg	ND	1.7	1.7	1.6J	1.4J	92	84	25-130			30	
4-Nitroaniline	mg/kg	ND	3.4	3.4	2.1J	2.3J	62	69	22-130			30	
4-Nitrophenol	mg/kg	ND	8.4	8.4	6.3J	5.9J	75	70	10-130			30	
Acenaphthene	mg/kg	ND	1.7	1.7	1.2J	1.3J	71	78	20-130			30	
Acenaphthylene	mg/kg	ND	1.7	1.7	1.4J	1.3J	85	77	25-130			30	
Aniline	mg/kg	ND	1.7	1.7	0.83J	0.88J	49	52	10-130			30	
Anthracene	mg/kg	ND	1.7	1.7	1.3J	1.4J	79	82	29-130			30	
Benzo(a)anthracene	mg/kg	ND	1.7	1.7	1.2J	1.3J	70	75	19-130			30	
Benzo(a)pyrene	mg/kg	ND	1.7	1.7	1.2J	1.3J	70	75	12-130			30	
Benzo(b)fluoranthene	mg/kg	ND	1.7	1.7	1.1J	1.2J	67	71	14-130			30	
Benzo(g,h,i)perylene	mg/kg	ND	1.7	1.7	1.2J	1.3J	72	74	10-130			30	
Benzo(k)fluoranthene	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	73	14-130			30	
Benzoic Acid	mg/kg	ND	8.4	8.4	5.0J	5.1J	59	61	10-130			30	
Benzyl alcohol	mg/kg	ND	3.4	3.4	1.9J	2.2J	57	65	13-130			30	
bis(2-Chloroethoxy)methane	mg/kg	ND	1.7	1.7	1.2J	1.2J	70	73	16-130			30	
bis(2-Chloroethyl) ether	mg/kg	ND	1.7	1.7	1.1J	1.1J	67	68	11-130			30	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	64	70	21-130			30	
Butylbenzylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	68	71	23-130			30	
Chrysene	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	68	22-130			30	
Di-n-butylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	64	69	30-130			30	
Di-n-octylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	72	23-142			30	
Dibenz(a,h)anthracene	mg/kg	ND	1.7	1.7	1.1J	1.1J	64	67	10-130			30	
Dibenzofuran	mg/kg	ND	1.7	1.7	1.3J	1.3J	75	80	24-130			30	
Diethylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.1J	66	64	26-130			30	
Dimethylphthalate	mg/kg	ND	1.7	1.7	1.2J	1.1J	72	66	22-130			30	
Fluoranthene	mg/kg	ND	1.7	1.7	1.2J	1.3J	72	74	33-130			30	
Fluorene	mg/kg	ND	1.7	1.7	1.4J	1.3J	82	76	22-130			30	
Hexachloro-1,3-butadiene	mg/kg	ND	1.7	1.7	1.2J	1.3J	73	76	13-130			30	
Hexachlorobenzene	mg/kg	ND	1.7	1.7	1.3J	1.5J	80	87	29-130			30	
Hexachlorocyclopentadiene	mg/kg	ND	1.7	1.7	1.1J	1.2J	65	69	10-130			30	
Hexachloroethane	mg/kg	ND	1.7	1.7	1.1J	1.3J	63	74	10-130			30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	1.7	1.7	1.1J	1.3J	67	74	10-130			30	
Isophorone	mg/kg	ND	1.7	1.7	1.2J	1.2J	70	72	13-130			30	
N-Nitroso-di-n-propylamine	mg/kg	ND	1.7	1.7	1.1J	1.2J	67	71	12-130			30	
N-Nitrosodimethylamine	mg/kg	ND	1.7	1.7	0.58J	0.60J	35	35	11-130			30	

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.: 92454745

Parameter	Units	2744916		2744917		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92449762007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
N-Nitrosodiphenylamine	mg/kg	ND	1.7	1.7	3.0	2.0	180	117	15-130	42	30	M1,R1	
Naphthalene	mg/kg	ND	1.7	1.7	1.3J	1.3J	77	79	15-130		30		
Nitrobenzene	mg/kg	ND	1.7	1.7	1.1J	1.2J	68	69	12-130		30		
Pentachlorophenol	mg/kg	ND	3.4	3.4	2.2J	2.3J	65	68	10-130		30		
Phenanthrene	mg/kg	ND	1.7	1.7	1.4J	1.4J	82	84	27-130		30		
Phenol	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	71	10-130		30		
Pyrene	mg/kg	ND	1.7	1.7	1.6J	1.6J	62	57	19-130		30		
Pyridine	mg/kg	ND	1.7	1.7	ND	0.46J	23	27	10-130		30		
2,4,6-Tribromophenol (S)	%						89	93	27-110				
2-Fluorobiphenyl (S)	%						57	67	30-110				
2-Fluorophenol (S)	%						56	65	13-110				
Nitrobenzene-d5 (S)	%						65	66	23-110			D3	
Phenol-d6 (S)	%						55	61	22-110				
Terphenyl-d14 (S)	%						59	71	28-110				

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92454745

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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-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

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

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 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.

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## QUALIFIERS

Project: ROW-603

Pace Project No.: 92454745

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### ANALYTE QUALIFIERS

v3      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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603  
Pace Project No.: 92454745

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92454745001	SB-4 (15-17)	EPA 3050B	511524	EPA 6010D	511736
92454745002	SB-4 (19-21)	EPA 3050B	511524	EPA 6010D	511736
92454745003	SB-5 (15-17)	EPA 3050B	511524	EPA 6010D	511736
92454745004	SB-5 (19-21)	EPA 3050B	511524	EPA 6010D	511736
92454745005	DUP-1-SOIL	EPA 3050B	511524	EPA 6010D	511736
92454745001	SB-4 (15-17)	EPA 7471B	511178	EPA 7471B	511280
92454745002	SB-4 (19-21)	EPA 7471B	511178	EPA 7471B	511280
92454745003	SB-5 (15-17)	EPA 7471B	511178	EPA 7471B	511280
92454745004	SB-5 (19-21)	EPA 7471B	511178	EPA 7471B	511280
92454745005	DUP-1-SOIL	EPA 7471B	511178	EPA 7471B	511280
92454745001	SB-4 (15-17)	EPA 3546	511777	EPA 8270E	512023
92454745002	SB-4 (19-21)	EPA 3546	511777	EPA 8270E	512023
92454745003	SB-5 (15-17)	EPA 3546	511777	EPA 8270E	512023
92454745004	SB-5 (19-21)	EPA 3546	511777	EPA 8270E	512023
92454745005	DUP-1-SOIL	EPA 3546	511777	EPA 8270E	512023
92454745001	SB-4 (15-17)	EPA 5035A	512117	EPA 8260D	512123
92454745002	SB-4 (19-21)	EPA 5035A	512117	EPA 8260D	512123
92454745003	SB-5 (15-17)	EPA 5035A	512117	EPA 8260D	512123
92454745004	SB-5 (19-21)	EPA 5035A	512117	EPA 8260D	512123
92454745005	DUP-1-SOIL	EPA 5035A	512117	EPA 8260D	512123
92454745006	TRIP BLANK	EPA 8260D	512130		
92454745006	TRIP BLANK	EPA 8260D Mod.	511424		
92454745001	SB-4 (15-17)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454745002	SB-4 (19-21)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454745003	SB-5 (15-17)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454745004	SB-5 (19-21)	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454745005	DUP-1-SOIL	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454745001	SB-4 (15-17)	ASTM D2974-87	511267		
92454745002	SB-4 (19-21)	ASTM D2974-87	511267		
92454745003	SB-5 (15-17)	ASTM D2974-87	511267		
92454745004	SB-5 (19-21)	ASTM D2974-87	511267		
92454745005	DUP-1-SOIL	ASTM D2974-87	511267		

### REPORT OF LABORATORY ANALYSIS

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

*Harce & Hickman*

Project #:

**WO# : 92454745**

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

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *EH 11-21-19*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

 IR Gun ID: 92T058Type of Ice:  Wet  Blue  NoneCooler Temp (°C): 2.4, 2.3 Correction Factor: Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.4, 2.3

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: <i>WTXSL</i>	
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: *JH*Date: *11/21/19*Project Manager SRF Review: *JH*Date: *11/21/19*

\*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# : 92454745**  
 PM: KRG Due Date: 12/02/19  
 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 (pH > 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									
2								2													2								
3								2													2								
4								2													2								
5								2													2								
6																2													
7																													
8																													
9																													
10																													
11																													
12																													

**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.







December 06, 2019

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

RE: Project: ROW-603  
Pace Project No.: 92455128

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 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



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ROW-603

Pace Project No.: 92455128

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### **Pace Analytical Services Charlotte**

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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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92455128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92455128001	MW-2	Water	11/22/19 09:05	11/22/19 15:57
92455128002	MW-1	Water	11/22/19 11:30	11/22/19 15:57
92455128003	MW-4	Water	11/22/19 12:55	11/22/19 15:57
92455128004	DUP-2-GW	Water	11/22/19 00:00	11/22/19 15:57
92455128005	TRIP BLANK	Water	11/22/19 00:00	11/22/19 15:57

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### SAMPLE ANALYTE COUNT

Project: ROW-603

Pace Project No.: 92455128

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92455128001	MW-2	EPA 6010D	SH1	7	PASI-A
		EPA 7470A	SOO	1	PASI-A
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92455128002	MW-1	EPA 6010D	SH1	7	PASI-A
		EPA 7470A	SOO	1	PASI-A
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92455128003	MW-4	EPA 6010D	SH1	7	PASI-A
		EPA 7470A	SOO	1	PASI-A
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92455128004	DUP-2-GW	EPA 6010D	DS	7	PASI-A
		EPA 7470A	SOO	1	PASI-A
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92455128005	TRIP BLANK	EPA 8260D	GAW	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: MW-2**      **Lab ID: 92455128001**      Collected: 11/22/19 09:05      Received: 11/22/19 15:57      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	4.7	1	11/26/19 02:24	11/26/19 22:41	7440-38-2	
Barium	<b>40.6</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:41	7440-39-3	
Cadmium	ND	ug/L	1.0	0.40	1	11/26/19 02:24	11/26/19 22:41	7440-43-9	
Chromium	ND	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:41	7440-47-3	
Lead	ND	ug/L	5.0	1.6	1	11/26/19 02:24	11/26/19 22:41	7439-92-1	
Selenium	ND	ug/L	10.0	4.7	1	11/26/19 02:24	11/26/19 22:41	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/26/19 02:24	11/26/19 22:41	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.10	1	12/03/19 11:02	12/03/19 14:41	7439-97-6	
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	208-96-8	
Aniline	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 16:42	62-53-3	v2
Anthracene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 16:42	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 16:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 16:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 16:42	207-08-9	
Benzoic Acid	ND	ug/L	50.0	43.0	1	11/26/19 18:23	12/02/19 16:42	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	11/26/19 18:23	12/02/19 16:42	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 16:42	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 16:42	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 16:42	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 16:42	111-44-4	v1
2-Chloronaphthalene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 16:42	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 16:42	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	7005-72-3	
Chrysene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 16:42	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.3	1	11/26/19 18:23	12/02/19 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 16:42	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	3.0	1	11/26/19 18:23	12/02/19 16:42	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	120-83-2	
Diethylphthalate	ND	ug/L	10.0	2.4	1	11/26/19 18:23	12/02/19 16:42	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 16:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	15.2	1	11/26/19 18:23	12/02/19 16:42	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	40.5	1	11/26/19 18:23	12/02/19 16:42	51-28-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: MW-2**      **Lab ID: 92455128001**      Collected: 11/22/19 09:05      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 16:42	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 16:42	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.1	1	11/26/19 18:23	12/02/19 16:42	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 16:42	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 16:42	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	193-39-5	
Isophorone	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 16:42	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 16:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 16:42	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	4.2	1	11/26/19 18:23	12/02/19 16:42	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.3	1	11/26/19 18:23	12/02/19 16:42	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.2	1	11/26/19 18:23	12/02/19 16:42	100-01-6	
Nitrobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 16:42	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.5	1	11/26/19 18:23	12/02/19 16:42	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 16:42	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.2	1	11/26/19 18:23	12/02/19 16:42	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	2.8	1	11/26/19 18:23	12/02/19 16:42	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	2.2	1	11/26/19 18:23	12/02/19 16:42	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 16:42	85-01-8	
Phenol	ND	ug/L	10.0	0.92	1	11/26/19 18:23	12/02/19 16:42	108-95-2	
Pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 16:42	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 16:42	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 16:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 16:42	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	75	%	13-130		1	11/26/19 18:23	12/02/19 16:42	4165-60-0	
2-Fluorobiphenyl (S)	73	%	13-130		1	11/26/19 18:23	12/02/19 16:42	321-60-8	
Terphenyl-d14 (S)	103	%	25-130		1	11/26/19 18:23	12/02/19 16:42	1718-51-0	
Phenol-d6 (S)	46	%	10-130		1	11/26/19 18:23	12/02/19 16:42	13127-88-3	
2-Fluorophenol (S)	59	%	10-130		1	11/26/19 18:23	12/02/19 16:42	367-12-4	
2,4,6-Tribromophenol (S)	107	%	10-137		1	11/26/19 18:23	12/02/19 16:42	118-79-6	
<b>8260D MSV Low Level</b> Analytical Method: EPA 8260D									
Acetone	ND	ug/L	25.0	6.2	1		12/06/19 03:14	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		12/06/19 03:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:14	108-86-1	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: MW-2**      **Lab ID: 92455128001**      Collected: 11/22/19 09:05      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>									
Analytical Method: EPA 8260D									
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/06/19 03:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/06/19 03:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/06/19 03:14	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/06/19 03:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/06/19 03:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/06/19 03:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/06/19 03:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/06/19 03:14	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/06/19 03:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/06/19 03:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/06/19 03:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/06/19 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/06/19 03:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/06/19 03:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/06/19 03:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/06/19 03:14	75-71-8	
1,1-Dichloroethane	<b>3.2</b>	ug/L	1.0	0.27	1		12/06/19 03:14	75-34-3	
1,2-Dichloroethane	<b>0.63J</b>	ug/L	1.0	0.34	1		12/06/19 03:14	107-06-2	
1,1-Dichloroethene	<b>55.9</b>	ug/L	1.0	0.24	1		12/06/19 03:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/06/19 03:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/06/19 03:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/06/19 03:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/06/19 03:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/06/19 03:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/06/19 03:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/06/19 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/06/19 03:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/06/19 03:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/06/19 03:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/06/19 03:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/06/19 03:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/06/19 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/06/19 03:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/06/19 03:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/06/19 03:14	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/06/19 03:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/06/19 03:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/06/19 03:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/06/19 03:14	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		12/06/19 03:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/06/19 03:14	87-61-6	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

Sample: MW-2		Lab ID: 92455128001		Collected: 11/22/19 09:05		Received: 11/22/19 15:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:14	120-82-1	
1,1,1-Trichloroethane	<b>8.4</b>	ug/L	1.0	0.18	1		12/06/19 03:14	71-55-6	
1,1,2-Trichloroethane	<b>0.32J</b>	ug/L	1.0	0.24	1		12/06/19 03:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/06/19 03:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/06/19 03:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/06/19 03:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/06/19 03:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/06/19 03:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/06/19 03:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/06/19 03:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/06/19 03:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/06/19 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/06/19 03:14	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		12/06/19 03:14	2037-26-5	
<b>8260D MSV SIM</b>		Analytical Method: EPA 8260D Mod.							
1,4-Dioxane (p-Dioxane)	<b>39.9</b>	ug/L	2.0	1.2	1		11/26/19 13:40	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	50-150		1		11/26/19 13:40	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		11/26/19 13:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: MW-1**      **Lab ID: 92455128002**      Collected: 11/22/19 11:30      Received: 11/22/19 15:57      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	4.7	1	11/26/19 02:24	11/26/19 22:44	7440-38-2	
Barium	<b>504</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:44	7440-39-3	
Cadmium	ND	ug/L	1.0	0.40	1	11/26/19 02:24	11/26/19 22:44	7440-43-9	
Chromium	<b>8.8</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:44	7440-47-3	
Lead	ND	ug/L	5.0	1.6	1	11/26/19 02:24	11/26/19 22:44	7439-92-1	
Selenium	ND	ug/L	10.0	4.7	1	11/26/19 02:24	11/26/19 22:44	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/26/19 02:24	11/26/19 22:44	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.10	1	12/03/19 11:02	12/03/19 14:44	7439-97-6	
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	208-96-8	
Aniline	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:13	62-53-3	v2
Anthracene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:13	207-08-9	
Benzoic Acid	ND	ug/L	50.0	43.0	1	11/26/19 18:23	12/02/19 17:13	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	11/26/19 18:23	12/02/19 17:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 17:13	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 17:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:13	111-44-4	v1
2-Chloronaphthalene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:13	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	7005-72-3	
Chrysene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.3	1	11/26/19 18:23	12/02/19 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	3.0	1	11/26/19 18:23	12/02/19 17:13	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	120-83-2	
Diethylphthalate	ND	ug/L	10.0	2.4	1	11/26/19 18:23	12/02/19 17:13	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	15.2	1	11/26/19 18:23	12/02/19 17:13	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	40.5	1	11/26/19 18:23	12/02/19 17:13	51-28-5	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

Sample: MW-1 Lab ID: 92455128002 Collected: 11/22/19 11:30 Received: 11/22/19 15:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E Preparation Method: EPA 3510C						
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.1	1	11/26/19 18:23	12/02/19 17:13	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 17:13	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 17:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	193-39-5	
Isophorone	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:13	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:13	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	4.2	1	11/26/19 18:23	12/02/19 17:13	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.3	1	11/26/19 18:23	12/02/19 17:13	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.2	1	11/26/19 18:23	12/02/19 17:13	100-01-6	
Nitrobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:13	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.5	1	11/26/19 18:23	12/02/19 17:13	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.2	1	11/26/19 18:23	12/02/19 17:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	2.8	1	11/26/19 18:23	12/02/19 17:13	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	2.2	1	11/26/19 18:23	12/02/19 17:13	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:13	85-01-8	
Phenol	ND	ug/L	10.0	0.92	1	11/26/19 18:23	12/02/19 17:13	108-95-2	
Pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:13	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	78	%	13-130		1	11/26/19 18:23	12/02/19 17:13	4165-60-0	
2-Fluorobiphenyl (S)	81	%	13-130		1	11/26/19 18:23	12/02/19 17:13	321-60-8	
Terphenyl-d14 (S)	97	%	25-130		1	11/26/19 18:23	12/02/19 17:13	1718-51-0	
Phenol-d6 (S)	51	%	10-130		1	11/26/19 18:23	12/02/19 17:13	13127-88-3	
2-Fluorophenol (S)	64	%	10-130		1	11/26/19 18:23	12/02/19 17:13	367-12-4	
2,4,6-Tribromophenol (S)	104	%	10-137		1	11/26/19 18:23	12/02/19 17:13	118-79-6	
<b>8260D MSV Low Level</b>			Analytical Method: EPA 8260D						
Acetone	ND	ug/L	25.0	6.2	1		12/06/19 03:32	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		12/06/19 03:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:32	108-86-1	

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### ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: MW-1**      **Lab ID: 92455128002**      Collected: 11/22/19 11:30      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>									
Analytical Method: EPA 8260D									
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/06/19 03:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/06/19 03:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/06/19 03:32	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/06/19 03:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/06/19 03:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/06/19 03:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/06/19 03:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/06/19 03:32	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/06/19 03:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/06/19 03:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/06/19 03:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/06/19 03:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/06/19 03:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/06/19 03:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/06/19 03:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/06/19 03:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		12/06/19 03:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		12/06/19 03:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		12/06/19 03:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/06/19 03:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/06/19 03:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/06/19 03:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/06/19 03:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/06/19 03:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/06/19 03:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/06/19 03:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/06/19 03:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/06/19 03:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/06/19 03:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/06/19 03:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/06/19 03:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/06/19 03:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/06/19 03:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/06/19 03:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/06/19 03:32	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/06/19 03:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/06/19 03:32	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/06/19 03:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/06/19 03:32	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		12/06/19 03:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/06/19 03:32	87-61-6	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

Sample: MW-1		Lab ID: 92455128002		Collected: 11/22/19 11:30		Received: 11/22/19 15:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		12/06/19 03:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		12/06/19 03:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/06/19 03:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/06/19 03:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/06/19 03:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/06/19 03:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/06/19 03:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/06/19 03:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/06/19 03:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/06/19 03:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/06/19 03:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/06/19 03:32	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/06/19 03:32	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		11/26/19 13:59	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	50-150		1		11/26/19 13:59	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		11/26/19 13:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: MW-4**      **Lab ID: 92455128003**      Collected: 11/22/19 12:55      Received: 11/22/19 15:57      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	4.7	1	11/26/19 02:24	11/26/19 22:47	7440-38-2	
Barium	<b>126</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:47	7440-39-3	
Cadmium	ND	ug/L	1.0	0.40	1	11/26/19 02:24	11/26/19 22:47	7440-43-9	
Chromium	ND	ug/L	5.0	1.0	1	11/26/19 02:24	11/26/19 22:47	7440-47-3	
Lead	ND	ug/L	5.0	1.6	1	11/26/19 02:24	11/26/19 22:47	7439-92-1	
Selenium	ND	ug/L	10.0	4.7	1	11/26/19 02:24	11/26/19 22:47	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/26/19 02:24	11/26/19 22:47	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.10	1	12/03/19 11:02	12/03/19 14:46	7439-97-6	
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	208-96-8	
Aniline	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:44	62-53-3	v2
Anthracene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 17:44	207-08-9	
Benzoic Acid	ND	ug/L	50.0	43.0	1	11/26/19 18:23	12/02/19 17:44	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	11/26/19 18:23	12/02/19 17:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 17:44	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 17:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:44	111-44-4	v1
2-Chloronaphthalene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:44	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	7005-72-3	
Chrysene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.3	1	11/26/19 18:23	12/02/19 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	3.0	1	11/26/19 18:23	12/02/19 17:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	120-83-2	
Diethylphthalate	<b>6.9J</b>	ug/L	10.0	2.4	1	11/26/19 18:23	12/02/19 17:44	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	15.2	1	11/26/19 18:23	12/02/19 17:44	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	40.5	1	11/26/19 18:23	12/02/19 17:44	51-28-5	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: MW-4**      **Lab ID: 92455128003**      Collected: 11/22/19 12:55      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E    Preparation Method: EPA 3510C						
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 17:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.1	1	11/26/19 18:23	12/02/19 17:44	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 17:44	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 17:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	193-39-5	
Isophorone	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 17:44	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:44	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	4.2	1	11/26/19 18:23	12/02/19 17:44	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.3	1	11/26/19 18:23	12/02/19 17:44	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.2	1	11/26/19 18:23	12/02/19 17:44	100-01-6	
Nitrobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:44	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.5	1	11/26/19 18:23	12/02/19 17:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 17:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.2	1	11/26/19 18:23	12/02/19 17:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	2.8	1	11/26/19 18:23	12/02/19 17:44	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	2.2	1	11/26/19 18:23	12/02/19 17:44	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 17:44	85-01-8	
Phenol	ND	ug/L	10.0	0.92	1	11/26/19 18:23	12/02/19 17:44	108-95-2	
Pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 17:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 17:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 17:44	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	36	%	13-130		1	11/26/19 18:23	12/02/19 17:44	4165-60-0	
2-Fluorobiphenyl (S)	32	%	13-130		1	11/26/19 18:23	12/02/19 17:44	321-60-8	
Terphenyl-d14 (S)	43	%	25-130		1	11/26/19 18:23	12/02/19 17:44	1718-51-0	
Phenol-d6 (S)	24	%	10-130		1	11/26/19 18:23	12/02/19 17:44	13127-88-3	
2-Fluorophenol (S)	30	%	10-130		1	11/26/19 18:23	12/02/19 17:44	367-12-4	
2,4,6-Tribromophenol (S)	41	%	10-137		1	11/26/19 18:23	12/02/19 17:44	118-79-6	
<b>8260D MSV Low Level</b>			Analytical Method: EPA 8260D						
Acetone	ND	ug/L	25.0	6.2	1		12/06/19 03:49	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		12/06/19 03:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:49	108-86-1	

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### ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

Sample: MW-4 Lab ID: 92455128003 Collected: 11/22/19 12:55 Received: 11/22/19 15:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Analytical Method: EPA 8260D									
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/06/19 03:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/06/19 03:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/06/19 03:49	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/06/19 03:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/06/19 03:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/06/19 03:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/06/19 03:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/06/19 03:49	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/06/19 03:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/06/19 03:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 03:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/06/19 03:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/06/19 03:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/06/19 03:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/06/19 03:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/06/19 03:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/06/19 03:49	75-71-8	
1,1-Dichloroethane	0.91J	ug/L	1.0	0.27	1		12/06/19 03:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		12/06/19 03:49	107-06-2	
1,1-Dichloroethene	23.5	ug/L	1.0	0.24	1		12/06/19 03:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/06/19 03:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/06/19 03:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/06/19 03:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/06/19 03:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/06/19 03:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/06/19 03:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/06/19 03:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/06/19 03:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/06/19 03:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/06/19 03:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/06/19 03:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/06/19 03:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/06/19 03:49	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/06/19 03:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/06/19 03:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/06/19 03:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/06/19 03:49	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/06/19 03:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/06/19 03:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/06/19 03:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/06/19 03:49	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		12/06/19 03:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/06/19 03:49	87-61-6	

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### ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: MW-4**      **Lab ID: 92455128003**      Collected: 11/22/19 12:55      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 03:49	120-82-1	
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.18	1		12/06/19 03:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		12/06/19 03:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/06/19 03:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/06/19 03:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/06/19 03:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/06/19 03:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/06/19 03:49	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/06/19 03:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/06/19 03:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/06/19 03:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/06/19 03:49	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/06/19 03:49	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		12/06/19 03:49	2037-26-5	
<b>8260D MSV SIM</b>		Analytical Method: EPA 8260D Mod.							
1,4-Dioxane (p-Dioxane)	8.9	ug/L	2.0	1.2	1		11/26/19 14:19	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	50-150		1		11/26/19 14:19	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		11/26/19 14:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: DUP-2-GW**      **Lab ID: 92455128004**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      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	4.7	1	11/26/19 02:24	11/27/19 23:44	7440-38-2	
Barium	<b>118</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/27/19 23:44	7440-39-3	
Cadmium	ND	ug/L	1.0	0.40	1	11/26/19 02:24	11/27/19 23:44	7440-43-9	
Chromium	ND	ug/L	5.0	1.0	1	11/26/19 02:24	11/27/19 23:44	7440-47-3	
Lead	ND	ug/L	5.0	1.6	1	11/26/19 02:24	11/27/19 23:44	7439-92-1	
Selenium	ND	ug/L	10.0	4.7	1	11/26/19 02:24	11/27/19 23:44	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/26/19 02:24	11/27/19 23:44	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.10	1	12/03/19 11:02	12/03/19 14:51	7439-97-6	
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	208-96-8	
Aniline	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 18:14	62-53-3	v2
Anthracene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 18:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 18:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 18:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	12/02/19 18:14	207-08-9	
Benzoic Acid	ND	ug/L	50.0	43.0	1	11/26/19 18:23	12/02/19 18:14	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	11/26/19 18:23	12/02/19 18:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 18:14	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/26/19 18:23	12/02/19 18:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 18:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 18:14	111-44-4	v1
2-Chloronaphthalene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 18:14	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 18:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	7005-72-3	
Chrysene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 18:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.3	1	11/26/19 18:23	12/02/19 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 18:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	3.0	1	11/26/19 18:23	12/02/19 18:14	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	120-83-2	
Diethylphthalate	<b>10J</b>	ug/L	10.0	2.4	1	11/26/19 18:23	12/02/19 18:14	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 18:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	15.2	1	11/26/19 18:23	12/02/19 18:14	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	40.5	1	11/26/19 18:23	12/02/19 18:14	51-28-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: DUP-2-GW**      **Lab ID: 92455128004**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 18:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	12/02/19 18:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.1	1	11/26/19 18:23	12/02/19 18:14	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 18:14	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2.0	1	11/26/19 18:23	12/02/19 18:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	193-39-5	
Isophorone	ND	ug/L	10.0	1.6	1	11/26/19 18:23	12/02/19 18:14	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 18:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 18:14	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	4.2	1	11/26/19 18:23	12/02/19 18:14	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.3	1	11/26/19 18:23	12/02/19 18:14	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.2	1	11/26/19 18:23	12/02/19 18:14	100-01-6	
Nitrobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 18:14	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.5	1	11/26/19 18:23	12/02/19 18:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.2	1	11/26/19 18:23	12/02/19 18:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.2	1	11/26/19 18:23	12/02/19 18:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	2.8	1	11/26/19 18:23	12/02/19 18:14	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	2.2	1	11/26/19 18:23	12/02/19 18:14	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	12/02/19 18:14	85-01-8	
Phenol	ND	ug/L	10.0	0.92	1	11/26/19 18:23	12/02/19 18:14	108-95-2	
Pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	12/02/19 18:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 18:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	12/02/19 18:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.5	1	11/26/19 18:23	12/02/19 18:14	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	68	%	13-130		1	11/26/19 18:23	12/02/19 18:14	4165-60-0	
2-Fluorobiphenyl (S)	64	%	13-130		1	11/26/19 18:23	12/02/19 18:14	321-60-8	
Terphenyl-d14 (S)	87	%	25-130		1	11/26/19 18:23	12/02/19 18:14	1718-51-0	
Phenol-d6 (S)	44	%	10-130		1	11/26/19 18:23	12/02/19 18:14	13127-88-3	
2-Fluorophenol (S)	55	%	10-130		1	11/26/19 18:23	12/02/19 18:14	367-12-4	
2,4,6-Tribromophenol (S)	91	%	10-137		1	11/26/19 18:23	12/02/19 18:14	118-79-6	
<b>8260D MSV Low Level</b> Analytical Method: EPA 8260D									
Acetone	ND	ug/L	25.0	6.2	1		12/06/19 04:06	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		12/06/19 04:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		12/06/19 04:06	108-86-1	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: DUP-2-GW**      **Lab ID: 92455128004**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>									
Analytical Method: EPA 8260D									
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/06/19 04:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/06/19 04:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/06/19 04:06	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/06/19 04:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/06/19 04:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/06/19 04:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/06/19 04:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/06/19 04:06	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/06/19 04:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/06/19 04:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 04:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/06/19 04:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/06/19 04:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/06/19 04:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/06/19 04:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/06/19 04:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/06/19 04:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 04:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/06/19 04:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/06/19 04:06	75-71-8	
1,1-Dichloroethane	<b>0.89J</b>	ug/L	1.0	0.27	1		12/06/19 04:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		12/06/19 04:06	107-06-2	
1,1-Dichloroethene	<b>22.3</b>	ug/L	1.0	0.24	1		12/06/19 04:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/06/19 04:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/06/19 04:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/06/19 04:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/06/19 04:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/06/19 04:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/06/19 04:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/06/19 04:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/06/19 04:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/06/19 04:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/06/19 04:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/06/19 04:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/06/19 04:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/06/19 04:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/06/19 04:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/06/19 04:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/06/19 04:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/06/19 04:06	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/06/19 04:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/06/19 04:06	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/06/19 04:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/06/19 04:06	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		12/06/19 04:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/06/19 04:06	87-61-6	

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: DUP-2-GW**      **Lab ID: 92455128004**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/06/19 04:06	120-82-1	
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.18	1		12/06/19 04:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		12/06/19 04:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/06/19 04:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/06/19 04:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/06/19 04:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/06/19 04:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/06/19 04:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/06/19 04:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/06/19 04:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/06/19 04:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/06/19 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/06/19 04:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		12/06/19 04:06	2037-26-5	
<b>8260D MSV SIM</b>		Analytical Method: EPA 8260D Mod.							
1,4-Dioxane (p-Dioxane)	7.4	ug/L	2.0	1.2	1		11/26/19 14:39	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	50-150		1		11/26/19 14:39	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		11/26/19 14:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455128

**Sample: TRIP BLANK**      **Lab ID: 92455128005**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
Acetone	ND	ug/L	25.0	6.2	1		12/05/19 23:29	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		12/05/19 23:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		12/05/19 23:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/05/19 23:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/05/19 23:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/05/19 23:29	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/05/19 23:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/05/19 23:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/05/19 23:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/05/19 23:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/05/19 23:29	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/05/19 23:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/05/19 23:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/05/19 23:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/05/19 23:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/05/19 23:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/05/19 23:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/05/19 23:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/05/19 23:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/05/19 23:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/05/19 23:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/05/19 23:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/05/19 23:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		12/05/19 23:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		12/05/19 23:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		12/05/19 23:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/05/19 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/05/19 23:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/05/19 23:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/05/19 23:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/05/19 23:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/05/19 23:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/05/19 23:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/05/19 23:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/05/19 23:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/05/19 23:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/05/19 23:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/05/19 23:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/05/19 23:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/05/19 23:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/05/19 23:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/05/19 23:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/05/19 23:29	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/05/19 23:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/05/19 23:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/05/19 23:29	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455128

**Sample: TRIP BLANK**      **Lab ID: 92455128005**      Collected: 11/22/19 00:00      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/05/19 23:29	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		12/05/19 23:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/05/19 23:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/05/19 23:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		12/05/19 23:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		12/05/19 23:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/05/19 23:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/05/19 23:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/05/19 23:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/05/19 23:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/05/19 23:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/05/19 23:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/05/19 23:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/05/19 23:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/05/19 23:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/05/19 23:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/05/19 23:29	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		11/26/19 13:20	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	50-150		1		11/26/19 13:20	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		11/26/19 13:20	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 512546 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004

METHOD BLANK: 2748079 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.10	12/03/19 14:01	

LABORATORY CONTROL SAMPLE: 2748080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2748081 2748082

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92454007002	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury	ug/L	ND	2.5	2.5	2.3	2.4	89	95	75-125	6	25		

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 511713 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Associated Lab Samples: 92455128001, 92455128002, 92455128003

METHOD BLANK: 2744759 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	4.7	11/26/19 21:17	
Barium	ug/L	ND	5.0	1.0	11/26/19 21:17	
Cadmium	ug/L	ND	1.0	0.40	11/26/19 21:17	
Chromium	ug/L	ND	5.0	1.0	11/26/19 21:17	
Lead	ug/L	ND	5.0	1.6	11/26/19 21:17	
Selenium	ug/L	ND	10.0	4.7	11/26/19 21:17	
Silver	ug/L	ND	5.0	2.5	11/26/19 21:17	

LABORATORY CONTROL SAMPLE: 2744760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	496	99	80-120	
Barium	ug/L	500	496	99	80-120	
Cadmium	ug/L	500	495	99	80-120	
Chromium	ug/L	500	490	98	80-120	
Lead	ug/L	500	488	98	80-120	
Selenium	ug/L	500	512	102	80-120	
Silver	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744761 2744762

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454823018 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	ug/L	5.6J	500	500	512	511	101	75-125	0	20	
Barium	ug/L	44.4	500	500	550	553	101	75-125	1	20	
Cadmium	ug/L	ND	500	500	502	507	100	75-125	1	20	
Chromium	ug/L	13.7	500	500	514	516	100	75-125	0	20	
Lead	ug/L	ND	500	500	493	496	98	75-125	1	20	
Selenium	ug/L	ND	500	500	529	549	106	75-125	4	20	
Silver	ug/L	ND	250	250	252	255	101	75-125	1	20	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 511715 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Associated Lab Samples: 92455128004

METHOD BLANK: 2744767 Matrix: Water  
Associated Lab Samples: 92455128004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	4.7	12/02/19 04:23	
Barium	ug/L	ND	5.0	1.0	12/02/19 04:23	
Cadmium	ug/L	ND	1.0	0.40	12/02/19 04:23	
Chromium	ug/L	ND	5.0	1.0	12/02/19 04:23	
Lead	ug/L	ND	5.0	1.6	12/02/19 04:23	
Selenium	ug/L	ND	10.0	4.7	12/02/19 04:23	
Silver	ug/L	ND	5.0	2.5	12/02/19 04:23	

LABORATORY CONTROL SAMPLE: 2744768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	496	99	80-120	
Cadmium	ug/L	500	483	97	80-120	
Chromium	ug/L	500	476	95	80-120	
Lead	ug/L	500	480	96	80-120	
Selenium	ug/L	500	490	98	80-120	
Silver	ug/L	250	249	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744769 2744770

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92455130001 Result	Spike Conc.	Spike Conc.	Result								
Arsenic	ug/L	ND	500	500	481	477	95	95	75-125	1	20		
Barium	ug/L	253	500	500	725	719	94	93	75-125	1	20		
Cadmium	ug/L	ND	500	500	481	477	96	95	75-125	1	20		
Chromium	ug/L	17.1	500	500	494	490	95	95	75-125	1	20		
Lead	ug/L	ND	500	500	473	469	95	94	75-125	1	20		
Selenium	ug/L	ND	500	500	500	496	100	99	75-125	1	20		
Silver	ug/L	ND	250	250	244	243	98	97	75-125	0	20		

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 513057 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004, 92455128005

METHOD BLANK: 2750390 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004, 92455128005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	12/05/19 22:55	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	12/05/19 22:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	12/05/19 22:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	12/05/19 22:55	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	12/05/19 22:55	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	12/05/19 22:55	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	12/05/19 22:55	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	12/05/19 22:55	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	12/05/19 22:55	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	12/05/19 22:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	0.26	12/05/19 22:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.26	12/05/19 22:55	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	12/05/19 22:55	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	12/05/19 22:55	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	12/05/19 22:55	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	12/05/19 22:55	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	12/05/19 22:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	12/05/19 22:55	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	12/05/19 22:55	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	12/05/19 22:55	
2-Chlorotoluene	ug/L	ND	1.0	0.20	12/05/19 22:55	
2-Hexanone	ug/L	ND	5.0	0.57	12/05/19 22:55	
4-Chlorotoluene	ug/L	ND	1.0	0.20	12/05/19 22:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	12/05/19 22:55	
Acetone	ug/L	ND	25.0	6.2	12/05/19 22:55	
Benzene	ug/L	ND	1.0	0.15	12/05/19 22:55	
Bromobenzene	ug/L	ND	1.0	0.22	12/05/19 22:55	
Bromochloromethane	ug/L	ND	1.0	0.34	12/05/19 22:55	
Bromodichloromethane	ug/L	ND	1.0	0.26	12/05/19 22:55	
Bromoform	ug/L	ND	1.0	0.62	12/05/19 22:55	
Bromomethane	ug/L	ND	2.0	0.62	12/05/19 22:55	
Carbon tetrachloride	ug/L	ND	1.0	0.22	12/05/19 22:55	
Chlorobenzene	ug/L	ND	1.0	0.23	12/05/19 22:55	
Chloroethane	ug/L	ND	1.0	0.49	12/05/19 22:55	
Chloroform	ug/L	ND	5.0	2.3	12/05/19 22:55	
Chloromethane	ug/L	ND	1.0	0.39	12/05/19 22:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	12/05/19 22:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	12/05/19 22:55	
Dibromochloromethane	ug/L	ND	1.0	0.41	12/05/19 22:55	
Dibromomethane	ug/L	ND	1.0	0.46	12/05/19 22:55	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	12/05/19 22:55	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

METHOD BLANK: 2750390

Matrix: Water

Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004, 92455128005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	12/05/19 22:55	
Ethylbenzene	ug/L	ND	1.0	0.26	12/05/19 22:55	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	12/05/19 22:55	
m&p-Xylene	ug/L	ND	2.0	0.41	12/05/19 22:55	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	12/05/19 22:55	
Methylene Chloride	ug/L	ND	5.0	3.7	12/05/19 22:55	
Naphthalene	ug/L	ND	1.0	0.35	12/05/19 22:55	
o-Xylene	ug/L	ND	1.0	0.22	12/05/19 22:55	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	12/05/19 22:55	
Styrene	ug/L	ND	1.0	0.27	12/05/19 22:55	
Tetrachloroethene	ug/L	ND	1.0	0.16	12/05/19 22:55	
Toluene	ug/L	ND	1.0	0.24	12/05/19 22:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	12/05/19 22:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	12/05/19 22:55	
Trichloroethene	ug/L	ND	1.0	0.22	12/05/19 22:55	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	12/05/19 22:55	
Vinyl acetate	ug/L	ND	2.0	1.4	12/05/19 22:55	
Vinyl chloride	ug/L	ND	1.0	0.24	12/05/19 22:55	
Xylene (Total)	ug/L	ND	1.0	0.63	12/05/19 22:55	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/05/19 22:55	
4-Bromofluorobenzene (S)	%	96	70-130		12/05/19 22:55	
Toluene-d8 (S)	%	95	70-130		12/05/19 22:55	

LABORATORY CONTROL SAMPLE: 2750391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.4	111	70-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	49.4	99	70-130	
1,1-Dichloroethene	ug/L	50	49.5	99	70-130	
1,1-Dichloropropene	ug/L	50	53.7	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	70-130	
1,2,3-Trichloropropane	ug/L	50	57.1	114	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.9	114	70-130	
1,2-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,2-Dichloroethane	ug/L	50	48.4	97	70-130	
1,2-Dichloropropane	ug/L	50	51.4	103	70-130	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,3-Dichloropropane	ug/L	50	55.6	111	70-131	
1,4-Dichlorobenzene	ug/L	50	52.2	104	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92455128

LABORATORY CONTROL SAMPLE: 2750391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.6	103	69-130	
2-Butanone (MEK)	ug/L	100	103	103	64-135	
2-Chlorotoluene	ug/L	50	53.4	107	70-130	
2-Hexanone	ug/L	100	116	116	66-135	
4-Chlorotoluene	ug/L	50	55.0	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-130	
Acetone	ug/L	100	115	115	61-157	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	55.4	111	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	53.5	107	70-130	
Bromoform	ug/L	50	55.2	110	70-130	
Bromomethane	ug/L	50	49.4	99	38-130	
Carbon tetrachloride	ug/L	50	54.7	109	70-130	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	47.5	95	37-142	
Chloroform	ug/L	50	51.2	102	70-130	
Chloromethane	ug/L	50	41.5	83	48-130	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	56.4	113	70-130	
Dibromomethane	ug/L	50	52.4	105	70-130	
Dichlorodifluoromethane	ug/L	50	43.5	87	53-134	
Diisopropyl ether	ug/L	50	51.2	102	70-135	
Ethylbenzene	ug/L	50	53.2	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	68-132	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	70-130	
Methylene Chloride	ug/L	50	48.2	96	67-132	
Naphthalene	ug/L	50	56.4	113	70-130	
o-Xylene	ug/L	50	54.3	109	70-131	
p-Isopropyltoluene	ug/L	50	53.0	106	70-130	
Styrene	ug/L	50	55.4	111	70-130	
Tetrachloroethene	ug/L	50	53.5	107	69-130	
Toluene	ug/L	50	50.8	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	70-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	45.8	92	63-130	
Vinyl acetate	ug/L	100	99.0	99	55-143	
Vinyl chloride	ug/L	50	47.9	96	70-131	
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

MATRIX SPIKE SAMPLE:	2750393	92454943002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.9	90	73-134	
1,1,1-Trichloroethane	ug/L	ND	20	18.9	94	82-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.5	87	70-136	
1,1,2-Trichloroethane	ug/L	ND	20	17.1	85	70-135	
1,1-Dichloroethane	ug/L	ND	20	17.6	88	70-139	
1,1-Dichloroethene	ug/L	ND	20	18.6	93	70-154	
1,1-Dichloropropene	ug/L	ND	20	19.7	98	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	20	15.2	76	70-135	
1,2,3-Trichloropropane	ug/L	ND	20	17.5	88	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	14.9	74	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	15.8	79	65-134	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.5	92	70-137	
1,2-Dichlorobenzene	ug/L	ND	20	17.2	86	70-133	
1,2-Dichloroethane	ug/L	ND	20	17.7	89	70-137	
1,2-Dichloropropane	ug/L	ND	20	16.8	84	70-140	
1,3-Dichlorobenzene	ug/L	ND	20	17.5	88	70-135	
1,3-Dichloropropane	ug/L	ND	20	18.9	95	70-143	
1,4-Dichlorobenzene	ug/L	ND	20	17.3	87	70-133	
2,2-Dichloropropane	ug/L	ND	20	18.6	93	61-148	
2-Butanone (MEK)	ug/L	ND	40	31.0	78	60-139	
2-Chlorotoluene	ug/L	ND	20	18.5	92	70-144	
2-Hexanone	ug/L	ND	40	31.2	78	65-138	
4-Chlorotoluene	ug/L	ND	20	18.3	92	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	29.9	75	65-135	
Acetone	ug/L	ND	40	31.7	79	60-148	
Benzene	ug/L	ND	20	17.4	87	70-151	
Bromobenzene	ug/L	ND	20	17.9	89	70-136	
Bromochloromethane	ug/L	ND	20	18.5	92	70-141	
Bromodichloromethane	ug/L	ND	20	17.3	87	70-138	
Bromoform	ug/L	ND	20	16.0	80	63-130	
Bromomethane	ug/L	ND	20	23.6	118	15-152	v3
Carbon tetrachloride	ug/L	ND	20	18.7	93	70-143	
Chlorobenzene	ug/L	ND	20	17.5	88	70-138	
Chloroethane	ug/L	ND	20	18.3	91	52-163	
Chloroform	ug/L	ND	20	18.8	94	70-139	
Chloromethane	ug/L	ND	20	14.5	73	41-139	
cis-1,2-Dichloroethene	ug/L	ND	20	17.3	87	70-141	
cis-1,3-Dichloropropene	ug/L	ND	20	16.9	84	70-137	
Dibromochloromethane	ug/L	ND	20	17.5	87	70-134	
Dibromomethane	ug/L	ND	20	16.6	83	70-138	
Dichlorodifluoromethane	ug/L	ND	20	17.8	89	47-155	
Diisopropyl ether	ug/L	ND	20	16.8	84	63-144	
Ethylbenzene	ug/L	ND	20	18.3	91	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	14.7	74	65-149	
m&p-Xylene	ug/L	ND	40	36.3	91	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	18.0	90	54-156	
Methylene Chloride	ug/L	ND	20	18.1	90	42-159	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

MATRIX SPIKE SAMPLE: 2750393		92454943002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	14.9	75	61-148	
o-Xylene	ug/L	ND	20	17.8	89	70-148	
p-Isopropyltoluene	ug/L	ND	20	17.4	87	70-146	
Styrene	ug/L	ND	20	17.8	89	70-135	
Tetrachloroethene	ug/L	ND	20	17.8	89	59-143	
Toluene	ug/L	ND	20	16.7	84	59-148	
trans-1,2-Dichloroethene	ug/L	ND	20	17.8	89	70-146	
trans-1,3-Dichloropropene	ug/L	ND	20	16.7	83	70-135	
Trichloroethene	ug/L	ND	20	17.2	86	70-147	
Trichlorofluoromethane	ug/L	ND	20	18.0	90	70-148	
Vinyl acetate	ug/L	ND	40	31.9	80	49-151	
Vinyl chloride	ug/L	ND	20	17.2	86	70-156	
Xylene (Total)	ug/L	ND	60	54.1	90	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2750392

Parameter	Units	92454943001	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.: 92455128

SAMPLE DUPLICATE: 2750392

Parameter	Units	92454943001 Result	Dup Result	RPD	Max 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	6.3	6.3	1	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)	%	103	110			
4-Bromofluorobenzene (S)	%	94	97			
Toluene-d8 (S)	%	98	96			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 511851 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004, 92455128005

METHOD BLANK: 2745156 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004, 92455128005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.2	11/26/19 13:00	
1,2-Dichloroethane-d4 (S)	%	99	50-150		11/26/19 13:00	
Toluene-d8 (S)	%	91	50-150		11/26/19 13:00	

LABORATORY CONTROL SAMPLE: 2745157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.1	95	70-130	
1,2-Dichloroethane-d4 (S)	%			116	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745381 2745382

Parameter	Units	92455128002 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	ND	20	20	18.9	18.9	94	94	50-150	0	30	
1,2-Dichloroethane-d4 (S)	%						119	119	50-150		30	
Toluene-d8 (S)	%						98	99	50-150		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

QC Batch: 511822 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3510C Analysis Description: 8270E Water MSSV RVE  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004

METHOD BLANK: 2745012 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.5	11/27/19 17:13	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.3	11/27/19 17:13	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.5	11/27/19 17:13	
1,4-Dichlorobenzene	ug/L	ND	10.0	2.1	11/27/19 17:13	
1-Methylnaphthalene	ug/L	ND	10.0	1.4	11/27/19 17:13	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	2.8	11/27/19 17:13	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.4	11/27/19 17:13	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.5	11/27/19 17:13	
2,4-Dichlorophenol	ug/L	ND	10.0	1.4	11/27/19 17:13	
2,4-Dimethylphenol	ug/L	ND	10.0	1.4	11/27/19 17:13	
2,4-Dinitrophenol	ug/L	ND	50.0	40.5	11/27/19 17:13	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.2	11/27/19 17:13	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.4	11/27/19 17:13	
2-Chloronaphthalene	ug/L	ND	10.0	1.5	11/27/19 17:13	
2-Chlorophenol	ug/L	ND	10.0	1.2	11/27/19 17:13	
2-Methylnaphthalene	ug/L	ND	10.0	1.4	11/27/19 17:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.2	11/27/19 17:13	
2-Nitroaniline	ug/L	ND	20.0	4.2	11/27/19 17:13	
2-Nitrophenol	ug/L	ND	10.0	1.4	11/27/19 17:13	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.2	11/27/19 17:13	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	3.0	11/27/19 17:13	
3-Nitroaniline	ug/L	ND	20.0	2.3	11/27/19 17:13	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	15.2	11/27/19 17:13	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.6	11/27/19 17:13	
4-Chloro-3-methylphenol	ug/L	ND	20.0	2.8	11/27/19 17:13	
4-Chloroaniline	ug/L	ND	20.0	2.8	11/27/19 17:13	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.6	11/27/19 17:13	
4-Nitroaniline	ug/L	ND	20.0	2.2	11/27/19 17:13	
4-Nitrophenol	ug/L	ND	50.0	3.5	11/27/19 17:13	
Acenaphthene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Acenaphthylene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Aniline	ug/L	ND	10.0	1.9	11/27/19 17:13	
Anthracene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Benzo(a)anthracene	ug/L	ND	10.0	1.8	11/27/19 17:13	
Benzo(a)pyrene	ug/L	ND	10.0	2.1	11/27/19 17:13	
Benzo(b)fluoranthene	ug/L	ND	10.0	1.9	11/27/19 17:13	
Benzo(g,h,i)perylene	ug/L	ND	10.0	1.4	11/27/19 17:13	
Benzo(k)fluoranthene	ug/L	ND	10.0	1.9	11/27/19 17:13	
Benzoic Acid	ug/L	ND	50.0	43.0	11/27/19 17:13	
Benzyl alcohol	ug/L	ND	20.0	2.6	11/27/19 17:13	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.8	11/27/19 17:13	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

METHOD BLANK: 2745012 Matrix: Water  
Associated Lab Samples: 92455128001, 92455128002, 92455128003, 92455128004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.8	11/27/19 17:13	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.1	11/27/19 17:13	
Butylbenzylphthalate	ug/L	ND	10.0	1.6	11/27/19 17:13	
Chrysene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Di-n-butylphthalate	ug/L	2.9J	10.0	1.8	11/27/19 17:13	
Di-n-octylphthalate	ug/L	ND	10.0	1.8	11/27/19 17:13	
Dibenz(a,h)anthracene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Dibenzofuran	ug/L	ND	10.0	1.5	11/27/19 17:13	
Diethylphthalate	ug/L	ND	10.0	2.4	11/27/19 17:13	
Dimethylphthalate	ug/L	ND	10.0	1.6	11/27/19 17:13	
Fluoranthene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Fluorene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	2.0	11/27/19 17:13	
Hexachlorobenzene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Hexachlorocyclopentadiene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Hexachloroethane	ug/L	ND	10.0	2.0	11/27/19 17:13	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Isophorone	ug/L	ND	10.0	1.6	11/27/19 17:13	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	2.2	11/27/19 17:13	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.2	11/27/19 17:13	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.7	11/27/19 17:13	
Naphthalene	ug/L	ND	10.0	1.4	11/27/19 17:13	
Nitrobenzene	ug/L	ND	10.0	2.1	11/27/19 17:13	
Pentachlorophenol	ug/L	ND	25.0	2.2	11/27/19 17:13	
Phenanthrene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Phenol	ug/L	ND	10.0	0.92	11/27/19 17:13	
Pyrene	ug/L	ND	10.0	2.1	11/27/19 17:13	
2,4,6-Tribromophenol (S)	%	86	10-137		11/27/19 17:13	
2-Fluorobiphenyl (S)	%	79	13-130		11/27/19 17:13	
2-Fluorophenol (S)	%	80	10-130		11/27/19 17:13	
Nitrobenzene-d5 (S)	%	74	13-130		11/27/19 17:13	
Phenol-d6 (S)	%	84	10-130		11/27/19 17:13	
Terphenyl-d14 (S)	%	84	25-130		11/27/19 17:13	

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.6	87	30-130	
1,2-Dichlorobenzene	ug/L	50	43.6	87	30-130	
1,3-Dichlorobenzene	ug/L	50	43.0	86	20-130	
1,4-Dichlorobenzene	ug/L	50	43.4	87	30-130	
1-Methylnaphthalene	ug/L	50	45.8	92	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	39.8	80	20-130	
2,4,5-Trichlorophenol	ug/L	50	45.2	90	40-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	46.9	94	40-130	
2,4-Dichlorophenol	ug/L	50	46.4	93	31-130	
2,4-Dimethylphenol	ug/L	50	46.2	92	30-130	
2,4-Dinitrophenol	ug/L	250	226	90	30-130	
2,4-Dinitrotoluene	ug/L	50	50.3	101	49-130	
2,6-Dinitrotoluene	ug/L	50	49.7	99	50-130	
2-Chloronaphthalene	ug/L	50	45.2	90	30-130	
2-Chlorophenol	ug/L	50	45.0	90	30-130	
2-Methylnaphthalene	ug/L	50	45.0	90	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	43.0	86	30-130	
2-Nitroaniline	ug/L	100	95.4	95	40-130	
2-Nitrophenol	ug/L	50	47.5	95	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	43.5	87	20-130	
3,3'-Dichlorobenzidine	ug/L	100	83.6	84	10-150	
3-Nitroaniline	ug/L	100	98.6	99	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	99.5	99	40-130	
4-Bromophenylphenyl ether	ug/L	50	44.2	88	30-130	
4-Chloro-3-methylphenol	ug/L	100	92.9	93	30-130	
4-Chloroaniline	ug/L	100	90.3	90	20-130	
4-Chlorophenylphenyl ether	ug/L	50	43.9	88	20-130	
4-Nitroaniline	ug/L	100	91.6	92	40-130	
4-Nitrophenol	ug/L	250	243	97	10-130	
Acenaphthene	ug/L	50	46.8	94	30-130	
Acenaphthylene	ug/L	50	50.1	100	30-130	
Aniline	ug/L	50	40.9	82	20-130	
Anthracene	ug/L	50	50.3	101	50-130	
Benzo(a)anthracene	ug/L	50	47.9	96	50-130	
Benzo(a)pyrene	ug/L	50	51.7	103	50-130	
Benzo(b)fluoranthene	ug/L	50	50.3	101	50-130	
Benzo(g,h,i)perylene	ug/L	50	50.1	100	50-130	
Benzo(k)fluoranthene	ug/L	50	50.2	100	50-130	
Benzoic Acid	ug/L	250	202	81	10-130	
Benzyl alcohol	ug/L	100	88.7	89	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	42.1	84	30-130	
bis(2-Chloroethyl) ether	ug/L	50	42.9	86	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.9	92	50-130	
Butylbenzylphthalate	ug/L	50	46.5	93	50-150	
Chrysene	ug/L	50	45.9	92	50-130	
Di-n-butylphthalate	ug/L	50	49.3	99	50-130	
Di-n-octylphthalate	ug/L	50	48.6	97	50-130	
Dibenz(a,h)anthracene	ug/L	50	50.9	102	40-130	
Dibenzofuran	ug/L	50	45.2	90	40-130	
Diethylphthalate	ug/L	50	45.4	91	40-130	
Dimethylphthalate	ug/L	50	44.6	89	40-130	
Fluoranthene	ug/L	50	49.0	98	30-130	
Fluorene	ug/L	50	47.2	94	20-130	
Hexachloro-1,3-butadiene	ug/L	50	43.2	86	10-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455128

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	46.6	93	30-130	
Hexachlorocyclopentadiene	ug/L	50	50.1	100	10-150	
Hexachloroethane	ug/L	50	43.5	87	10-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	50.5	101	40-130	
Isophorone	ug/L	50	43.6	87	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	43.6	87	30-130	
N-Nitrosodimethylamine	ug/L	50	41.5	83	10-130	
N-Nitrosodiphenylamine	ug/L	50	46.5	93	30-130	
Naphthalene	ug/L	50	45.8	92	20-130	
Nitrobenzene	ug/L	50	43.8	88	20-130	
Pentachlorophenol	ug/L	100	109	109	10-140	
Phenanthrene	ug/L	50	47.3	95	50-130	
Phenol	ug/L	50	46.3	93	10-130	
Pyrene	ug/L	50	47.1	94	50-130	
2,4,6-Tribromophenol (S)	%			109	10-137	
2-Fluorobiphenyl (S)	%			83	13-130	
2-Fluorophenol (S)	%			89	10-130	
Nitrobenzene-d5 (S)	%			80	13-130	
Phenol-d6 (S)	%			94	10-130	
Terphenyl-d14 (S)	%			85	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745014 2745015

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454931001 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50	26.0	22.5	52	45	30-130	14	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50	26.2	22.7	52	45	30-130	14	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50	25.5	22.2	51	44	20-130	14	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	50	25.9	22.6	52	45	30-130	14	30	
1-Methylnaphthalene	ug/L	ND	50	50	50	27.0	24.1	54	48	30-130	11	30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	50	24.2	21.1	48	42	20-130	13	30	
2,4,5-Trichlorophenol	ug/L	ND	50	50	50	26.0	23.2	52	46	40-130	11	30	
2,4,6-Trichlorophenol	ug/L	ND	50	50	50	27.2	24.0	54	48	40-130	12	30	
2,4-Dichlorophenol	ug/L	ND	50	50	50	26.6	23.6	53	47	31-130	12	30	
2,4-Dimethylphenol	ug/L	ND	50	50	50	27.2	23.4	54	47	30-130	15	30	
2,4-Dinitrophenol	ug/L	ND	250	250	250	142	144	57	58	30-130	1	30	
2,4-Dinitrotoluene	ug/L	ND	50	50	50	33.6	32.6	67	65	49-130	3	30	
2,6-Dinitrotoluene	ug/L	ND	50	50	50	30.3	28.2	61	56	50-130	7	30	
2-Chloronaphthalene	ug/L	ND	50	50	50	27.1	24.3	54	49	30-130	11	30	
2-Chlorophenol	ug/L	ND	50	50	50	26.4	23.3	53	47	30-130	13	30	
2-Methylnaphthalene	ug/L	ND	50	50	50	26.3	23.9	53	48	30-130	10	30	
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	50	22.7	20.2	45	40	30-130	11	30	
2-Nitroaniline	ug/L	ND	100	100	100	58.6	53.8	59	54	40-130	8	30	
2-Nitrophenol	ug/L	ND	50	50	50	28.9	25.1	58	50	20-130	14	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92455128

Parameter	Units	2745014		2745015		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	21.0	19.4	42	39	20-130	8	30	
3,3'-Dichlorobenzidine	ug/L	ND	100	100	63.5	59.7	64	60	10-150	6	30	
3-Nitroaniline	ug/L	ND	100	100	60.0	55.9	60	56	40-130	7	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	69.3	67.8	69	68	40-130	2	30	
4-Bromophenylphenyl ether	ug/L	ND	50	50	27.7	25.7	55	51	30-130	8	30	
4-Chloro-3-methylphenol	ug/L	ND	100	100	51.8	47.4	52	47	30-130	9	30	
4-Chloroaniline	ug/L	ND	100	100	55.0	48.8	55	49	20-130	12	30	
4-Chlorophenylphenyl ether	ug/L	ND	50	50	26.9	24.4	54	49	20-130	10	30	
4-Nitroaniline	ug/L	ND	100	100	64.9	64.3	65	64	40-130	1	30	
4-Nitrophenol	ug/L	ND	250	250	88.0	99.0	35	40	10-130	12	30	
Acenaphthene	ug/L	ND	50	50	28.5	25.7	57	51	30-130	10	30	
Acenaphthylene	ug/L	ND	50	50	30.5	27.4	61	55	30-130	11	30	
Aniline	ug/L	ND	50	50	21.4	17.9	43	36	20-130	18	30	
Anthracene	ug/L	ND	50	50	34.4	32.9	69	66	50-130	4	30	
Benzo(a)anthracene	ug/L	ND	50	50	36.5	35.2	73	70	50-130	4	30	
Benzo(a)pyrene	ug/L	ND	50	50	39.0	37.8	78	76	50-130	3	30	
Benzo(b)fluoranthene	ug/L	ND	50	50	36.9	36.8	74	74	50-130	0	30	
Benzo(g,h,i)perylene	ug/L	ND	50	50	39.9	38.4	80	77	50-130	4	30	
Benzo(k)fluoranthene	ug/L	ND	50	50	38.0	36.8	76	74	50-130	3	30	
Benzoic Acid	ug/L	ND	250	250	63.3	65.1	25	26	10-130	3	30	
Benzyl alcohol	ug/L	ND	100	100	48.9	44.8	49	45	20-130	9	30	
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	25.4	22.5	51	45	30-130	12	30	
bis(2-Chloroethyl) ether	ug/L	ND	50	50	27.6	24.0	55	48	30-130	14	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	32.8	32.1	66	64	50-130	2	30	
Butylbenzylphthalate	ug/L	ND	50	50	32.9	32.2	66	64	50-150	2	30	
Chrysene	ug/L	ND	50	50	35.7	34.1	71	68	50-130	5	30	
Di-n-butylphthalate	ug/L	ND	50	50	33.6	32.7	67	65	50-130	3	30	
Di-n-octylphthalate	ug/L	ND	50	50	34.1	33.3	68	67	50-130	2	30	
Dibenz(a,h)anthracene	ug/L	ND	50	50	39.9	37.6	80	75	40-130	6	30	
Dibenzofuran	ug/L	ND	50	50	28.2	25.1	56	50	40-130	12	30	
Diethylphthalate	ug/L	ND	50	50	31.0	30.6	62	61	40-130	1	30	
Dimethylphthalate	ug/L	ND	50	50	28.4	27.0	57	54	40-130	5	30	
Fluoranthene	ug/L	ND	50	50	37.1	36.1	74	72	30-130	3	30	
Fluorene	ug/L	ND	50	50	29.7	26.6	59	53	20-130	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	24.4	21.2	49	42	10-130	14	30	
Hexachlorobenzene	ug/L	ND	50	50	30.3	28.6	61	57	30-130	6	30	
Hexachlorocyclopentadiene	ug/L	ND	50	50	26.8	23.4	54	47	10-150	13	30	
Hexachloroethane	ug/L	ND	50	50	24.9	21.6	50	43	10-130	14	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	39.7	37.5	79	75	40-130	6	30	
Isophorone	ug/L	ND	50	50	26.4	23.9	53	48	30-130	10	30	
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	26.0	23.2	52	46	30-130	11	30	
N-Nitrosodimethylamine	ug/L	ND	50	50	21.4	20.0	43	40	10-130	7	30	
N-Nitrosodiphenylamine	ug/L	ND	50	50	29.6	27.9	59	56	30-130	6	30	
Naphthalene	ug/L	ND	50	50	27.9	24.7	56	49	20-130	12	30	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92455128

Parameter	Units	2745014		2745015		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454931001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Nitrobenzene	ug/L	ND	50	50	28.7	25.3	57	51	20-130	13	30		
Pentachlorophenol	ug/L	ND	100	100	72.2	69.6	72	70	10-140	4	30		
Phenanthrene	ug/L	ND	50	50	32.7	31.4	65	63	50-130	4	30		
Phenol	ug/L	ND	50	50	15.2	14.6	30	29	10-130	4	30		
Pyrene	ug/L	ND	50	50	35.5	34.8	71	70	50-130	2	30		
2,4,6-Tribromophenol (S)	%						78	71	10-137				
2-Fluorobiphenyl (S)	%						59	51	13-130				
2-Fluorophenol (S)	%						47	41	10-130				
Nitrobenzene-d5 (S)	%						60	51	13-130				
Phenol-d6 (S)	%						34	32	10-130				
Terphenyl-d14 (S)	%						70	64	25-130				

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92455128

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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-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 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.

v3 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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603  
Pace Project No.: 92455128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92455128001	MW-2	EPA 3010A	511713	EPA 6010D	511721
92455128002	MW-1	EPA 3010A	511713	EPA 6010D	511721
92455128003	MW-4	EPA 3010A	511713	EPA 6010D	511721
92455128004	DUP-2-GW	EPA 3010A	511715	EPA 6010D	511722
92455128001	MW-2	EPA 7470A	512546	EPA 7470A	512624
92455128002	MW-1	EPA 7470A	512546	EPA 7470A	512624
92455128003	MW-4	EPA 7470A	512546	EPA 7470A	512624
92455128004	DUP-2-GW	EPA 7470A	512546	EPA 7470A	512624
92455128001	MW-2	EPA 3510C	511822	EPA 8270E	512197
92455128002	MW-1	EPA 3510C	511822	EPA 8270E	512197
92455128003	MW-4	EPA 3510C	511822	EPA 8270E	512197
92455128004	DUP-2-GW	EPA 3510C	511822	EPA 8270E	512197
92455128001	MW-2	EPA 8260D	513057		
92455128002	MW-1	EPA 8260D	513057		
92455128003	MW-4	EPA 8260D	513057		
92455128004	DUP-2-GW	EPA 8260D	513057		
92455128005	TRIP BLANK	EPA 8260D	513057		
92455128001	MW-2	EPA 8260D Mod.	511851		
92455128002	MW-1	EPA 8260D Mod.	511851		
92455128003	MW-4	EPA 8260D Mod.	511851		
92455128004	DUP-2-GW	EPA 8260D Mod.	511851		
92455128005	TRIP BLANK	EPA 8260D Mod.	511851		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

H7H

Project #:

WO#: **92455128**



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

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: ma 11-23-19

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 92T058 Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp (°C): 3.1 Correction Factor: Add/Subtract (°C) 0.0°C

Cooler Temp Corrected (°C): 3.1

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 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 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 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 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>mt</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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: [Signature]  
 Project Manager SRF Review: [Signature]

Date: 11/23/19  
 Date: 11/23/19

\*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# : 92455128**  
 PM: KRG Due Date: 12/04/19  
 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	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	2	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	2	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	2	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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.





December 03, 2019

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

RE: Project: ROW-603  
Pace Project No.: 92454751

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 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 Herring for  
Kevin Godwin  
kevin.godwin@pacelabs.com  
1(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ROW-603

Pace Project No.: 92454751

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### **Pace Analytical Services Charlotte**

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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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92454751

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92454751001	IDW SOIL	Solid	11/21/19 10:15	11/21/19 10:37

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### SAMPLE ANALYTE COUNT

Project: ROW-603

Pace Project No.: 92454751

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92454751001	IDW SOIL	EPA 6010D	KQ	7	PASI-A
		EPA 7471B	SOO	1	PASI-A
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	SAS	70	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454751

**Sample: IDW SOIL**      **Lab ID: 92454751001**      Collected: 11/21/19 10:15      Received: 11/21/19 10:37      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>6010 MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Arsenic	<b>0.80J</b>	mg/kg	0.91	0.46	1	11/26/19 12:13	12/01/19 22:43	7440-38-2	
Barium	<b>218</b>	mg/kg	0.46	0.23	1	11/26/19 12:13	12/01/19 22:43	7440-39-3	
Cadmium	<b>0.087J</b>	mg/kg	0.091	0.046	1	11/26/19 12:13	12/01/19 22:43	7440-43-9	
Chromium	<b>30.8</b>	mg/kg	0.46	0.23	1	11/26/19 12:13	12/01/19 22:43	7440-47-3	
Lead	<b>2.6</b>	mg/kg	0.46	0.23	1	11/26/19 12:13	12/01/19 22:43	7439-92-1	
Selenium	<b>0.64J</b>	mg/kg	0.91	0.46	1	11/26/19 12:13	12/01/19 22:43	7782-49-2	B
Silver	ND	mg/kg	0.46	0.23	1	11/26/19 12:13	12/01/19 22:43	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.0055</b>	mg/kg	0.0023	0.0011	1	11/22/19 11:50	11/22/19 15:41	7439-97-6	
<b>8270E MSSV Microwave</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	83-32-9	
Acenaphthylene	ND	mg/kg	0.42	0.098	1	11/27/19 09:17	11/27/19 15:39	208-96-8	
Aniline	ND	mg/kg	0.42	0.093	1	11/27/19 09:17	11/27/19 15:39	62-53-3	
Anthracene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.42	0.13	1	11/27/19 09:17	11/27/19 15:39	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.42	0.18	1	11/27/19 09:17	11/27/19 15:39	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.42	0.17	1	11/27/19 09:17	11/27/19 15:39	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.42	0.16	1	11/27/19 09:17	11/27/19 15:39	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.42	0.18	1	11/27/19 09:17	11/27/19 15:39	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	0.45	1	11/27/19 09:17	11/27/19 15:39	65-85-0	
Benzyl alcohol	ND	mg/kg	0.83	0.22	1	11/27/19 09:17	11/27/19 15:39	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.83	0.25	1	11/27/19 09:17	11/27/19 15:39	59-50-7	
4-Chloroaniline	ND	mg/kg	2.1	0.25	1	11/27/19 09:17	11/27/19 15:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.42	0.088	1	11/27/19 09:17	11/27/19 15:39	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.42	0.093	1	11/27/19 09:17	11/27/19 15:39	91-58-7	
2-Chlorophenol	ND	mg/kg	0.42	0.097	1	11/27/19 09:17	11/27/19 15:39	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	7005-72-3	
Chrysene	ND	mg/kg	0.42	0.12	1	11/27/19 09:17	11/27/19 15:39	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.42	0.17	1	11/27/19 09:17	11/27/19 15:39	53-70-3	
Dibenzofuran	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.42	0.090	1	11/27/19 09:17	11/27/19 15:39	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.42	0.094	1	11/27/19 09:17	11/27/19 15:39	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.42	0.091	1	11/27/19 09:17	11/27/19 15:39	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.1	0.29	1	11/27/19 09:17	11/27/19 15:39	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.42	0.14	1	11/27/19 09:17	11/27/19 15:39	120-83-2	
Diethylphthalate	ND	mg/kg	0.42	0.090	1	11/27/19 09:17	11/27/19 15:39	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	105-67-9	
Dimethylphthalate	ND	mg/kg	0.42	0.094	1	11/27/19 09:17	11/27/19 15:39	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.83	0.67	1	11/27/19 09:17	11/27/19 15:39	534-52-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454751

**Sample: IDW SOIL**      **Lab ID: 92454751001**      Collected: 11/21/19 10:15      Received: 11/21/19 10:37      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>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
2,4-Dinitrophenol	ND	mg/kg	2.1	1.3	1	11/27/19 09:17	11/27/19 15:39	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.42	0.24	1	11/27/19 09:17	11/27/19 15:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.42	0.14	1	11/27/19 09:17	11/27/19 15:39	117-81-7	
Fluoranthene	ND	mg/kg	0.42	0.13	1	11/27/19 09:17	11/27/19 15:39	206-44-0	
Fluorene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.42	0.17	1	11/27/19 09:17	11/27/19 15:39	77-47-4	
Hexachloroethane	ND	mg/kg	0.42	0.095	1	11/27/19 09:17	11/27/19 15:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.42	0.19	1	11/27/19 09:17	11/27/19 15:39	193-39-5	
Isophorone	ND	mg/kg	0.42	0.090	1	11/27/19 09:17	11/27/19 15:39	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.42	0.092	1	11/27/19 09:17	11/27/19 15:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	15831-10-4	
Naphthalene	ND	mg/kg	0.42	0.099	1	11/27/19 09:17	11/27/19 15:39	91-20-3	
2-Nitroaniline	ND	mg/kg	2.1	0.21	1	11/27/19 09:17	11/27/19 15:39	88-74-4	
3-Nitroaniline	ND	mg/kg	2.1	0.22	1	11/27/19 09:17	11/27/19 15:39	99-09-2	
4-Nitroaniline	ND	mg/kg	0.83	0.21	1	11/27/19 09:17	11/27/19 15:39	100-01-6	
Nitrobenzene	ND	mg/kg	0.42	0.099	1	11/27/19 09:17	11/27/19 15:39	98-95-3	
2-Nitrophenol	ND	mg/kg	0.42	0.13	1	11/27/19 09:17	11/27/19 15:39	88-75-5	
4-Nitrophenol	ND	mg/kg	2.1	0.66	1	11/27/19 09:17	11/27/19 15:39	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.42	0.12	1	11/27/19 09:17	11/27/19 15:39	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.42	0.12	1	11/27/19 09:17	11/27/19 15:39	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.42	0.12	1	11/27/19 09:17	11/27/19 15:39	108-60-1	
Pentachlorophenol	ND	mg/kg	2.1	0.19	1	11/27/19 09:17	11/27/19 15:39	87-86-5	
Phenanthrene	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	85-01-8	
Phenol	ND	mg/kg	0.42	0.099	1	11/27/19 09:17	11/27/19 15:39	108-95-2	
Pyrene	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	129-00-0	
Pyridine	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.42	0.095	1	11/27/19 09:17	11/27/19 15:39	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.42	0.11	1	11/27/19 09:17	11/27/19 15:39	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.42	0.10	1	11/27/19 09:17	11/27/19 15:39	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	23-110		1	11/27/19 09:17	11/27/19 15:39	4165-60-0	
2-Fluorobiphenyl (S)	65	%	30-110		1	11/27/19 09:17	11/27/19 15:39	321-60-8	
Terphenyl-d14 (S)	71	%	28-110		1	11/27/19 09:17	11/27/19 15:39	1718-51-0	
Phenol-d6 (S)	58	%	22-110		1	11/27/19 09:17	11/27/19 15:39	13127-88-3	
2-Fluorophenol (S)	61	%	13-110		1	11/27/19 09:17	11/27/19 15:39	367-12-4	
2,4,6-Tribromophenol (S)	86	%	27-110		1	11/27/19 09:17	11/27/19 15:39	118-79-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454751

**Sample: IDW SOIL**      **Lab ID: 92454751001**      Collected: 11/21/19 10:15      Received: 11/21/19 10:37      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	ND	mg/kg	0.13	0.013	1	11/27/19 12:21	11/27/19 17:43	67-64-1	
Benzene	ND	mg/kg	0.0066	0.0012	1	11/27/19 12:21	11/27/19 17:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0066	0.0018	1	11/27/19 12:21	11/27/19 17:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0066	0.0016	1	11/27/19 12:21	11/27/19 17:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0066	0.0013	1	11/27/19 12:21	11/27/19 17:43	75-27-4	
Bromoform	ND	mg/kg	0.0066	0.0032	1	11/27/19 12:21	11/27/19 17:43	75-25-2	
Bromomethane	ND	mg/kg	0.013	0.0031	1	11/27/19 12:21	11/27/19 17:43	74-83-9	IH
2-Butanone (MEK)	ND	mg/kg	0.13	0.016	1	11/27/19 12:21	11/27/19 17:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0066	0.0037	1	11/27/19 12:21	11/27/19 17:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0066	0.0028	1	11/27/19 12:21	11/27/19 17:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0066	0.0022	1	11/27/19 12:21	11/27/19 17:43	98-06-6	v2
Carbon tetrachloride	ND	mg/kg	0.0066	0.0013	1	11/27/19 12:21	11/27/19 17:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0066	0.0013	1	11/27/19 12:21	11/27/19 17:43	108-90-7	
Chloroethane	ND	mg/kg	0.013	0.0028	1	11/27/19 12:21	11/27/19 17:43	75-00-3	IK
Chloroform	ND	mg/kg	0.0066	0.0014	1	11/27/19 12:21	11/27/19 17:43	67-66-3	
Chloromethane	ND	mg/kg	0.013	0.0044	1	11/27/19 12:21	11/27/19 17:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0066	0.0020	1	11/27/19 12:21	11/27/19 17:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0066	0.0020	1	11/27/19 12:21	11/27/19 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0066	0.0034	1	11/27/19 12:21	11/27/19 17:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0066	0.0033	1	11/27/19 12:21	11/27/19 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0066	0.0015	1	11/27/19 12:21	11/27/19 17:43	106-93-4	
Dibromomethane	ND	mg/kg	0.0066	0.0020	1	11/27/19 12:21	11/27/19 17:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0066	0.0023	1	11/27/19 12:21	11/27/19 17:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0066	0.0024	1	11/27/19 12:21	11/27/19 17:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0066	0.0023	1	11/27/19 12:21	11/27/19 17:43	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.013	0.0055	1	11/27/19 12:21	11/27/19 17:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0066	0.00098	1	11/27/19 12:21	11/27/19 17:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0066	0.0013	1	11/27/19 12:21	11/27/19 17:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0066	0.0015	1	11/27/19 12:21	11/27/19 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0066	0.0012	1	11/27/19 12:21	11/27/19 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0066	0.0013	1	11/27/19 12:21	11/27/19 17:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0066	0.0025	1	11/27/19 12:21	11/27/19 17:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0066	0.0025	1	11/27/19 12:21	11/27/19 17:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0066	0.00066	1	11/27/19 12:21	11/27/19 17:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0066	0.0028	1	11/27/19 12:21	11/27/19 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0066	0.0030	1	11/27/19 12:21	11/27/19 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0066	0.0012	1	11/27/19 12:21	11/27/19 17:43	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0066	0.0038	1	11/27/19 12:21	11/27/19 17:43	108-20-3	
Ethylbenzene	ND	mg/kg	0.0066	0.0014	1	11/27/19 12:21	11/27/19 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0066	0.0033	1	11/27/19 12:21	11/27/19 17:43	87-68-3	
2-Hexanone	ND	mg/kg	0.066	0.0069	1	11/27/19 12:21	11/27/19 17:43	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0066	0.0019	1	11/27/19 12:21	11/27/19 17:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0066	0.0032	1	11/27/19 12:21	11/27/19 17:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	0.0078	1	11/27/19 12:21	11/27/19 17:43	75-09-2	IH,v1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.066	0.0050	1	11/27/19 12:21	11/27/19 17:43	108-10-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92454751

**Sample: IDW SOIL**      **Lab ID: 92454751001**      Collected: 11/21/19 10:15      Received: 11/21/19 10:37      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	0.0066	0.0038	1	11/27/19 12:21	11/27/19 17:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0066	0.0056	1	11/27/19 12:21	11/27/19 17:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0066	0.0022	1	11/27/19 12:21	11/27/19 17:43	103-65-1	
Styrene	ND	mg/kg	0.0066	0.0020	1	11/27/19 12:21	11/27/19 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0066	0.0016	1	11/27/19 12:21	11/27/19 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0066	0.0023	1	11/27/19 12:21	11/27/19 17:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0066	0.0021	1	11/27/19 12:21	11/27/19 17:43	127-18-4	
Toluene	ND	mg/kg	0.0066	0.0022	1	11/27/19 12:21	11/27/19 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0066	0.0047	1	11/27/19 12:21	11/27/19 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0066	0.0035	1	11/27/19 12:21	11/27/19 17:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0066	0.0012	1	11/27/19 12:21	11/27/19 17:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0066	0.0015	1	11/27/19 12:21	11/27/19 17:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0066	0.0017	1	11/27/19 12:21	11/27/19 17:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0066	0.0016	1	11/27/19 12:21	11/27/19 17:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0066	0.0022	1	11/27/19 12:21	11/27/19 17:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0066	0.0026	1	11/27/19 12:21	11/27/19 17:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0066	0.0022	1	11/27/19 12:21	11/27/19 17:43	108-67-8	
Vinyl acetate	ND	mg/kg	0.066	0.022	1	11/27/19 12:21	11/27/19 17:43	108-05-4	
Vinyl chloride	ND	mg/kg	0.013	0.0025	1	11/27/19 12:21	11/27/19 17:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	0.0046	1	11/27/19 12:21	11/27/19 17:43	1330-20-7	
m&p-Xylene	ND	mg/kg	0.013	0.0031	1	11/27/19 12:21	11/27/19 17:43	179601-23-1	
o-Xylene	ND	mg/kg	0.0066	0.0016	1	11/27/19 12:21	11/27/19 17:43	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	70-130		1	11/27/19 12:21	11/27/19 17:43	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1	11/27/19 12:21	11/27/19 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-132		1	11/27/19 12:21	11/27/19 17:43	17060-07-0	
<b>8260D MSV SIM Soil</b>		Analytical Method: EPA 8260D Mod.    Preparation Method: EPA 8260D Mod.							
1,4-Dioxane (p-Dioxane)	<b>0.0084J</b>	mg/kg	0.014	0.0042	1	11/25/19 11:52	11/25/19 15:37	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1	11/25/19 11:52	11/25/19 15:37	17060-07-0	
Toluene-d8 (S)	104	%	50-150		1	11/25/19 11:52	11/25/19 15:37	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>19.5</b>	%	0.10	0.10	1		11/21/19 16:55		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

QC Batch: 512117 Analysis Method: EPA 8260D  
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics  
Associated Lab Samples: 92454751001

METHOD BLANK: 2746337 Matrix: Solid  
Associated Lab Samples: 92454751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.00087	11/27/19 10:53	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
1,1-Dichloroethane	mg/kg	ND	0.0050	0.00074	11/27/19 10:53	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
1,1-Dichloropropene	mg/kg	ND	0.0050	0.0021	11/27/19 10:53	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	0.0036	11/27/19 10:53	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	0.0026	11/27/19 10:53	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	0.0020	11/27/19 10:53	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/27/19 10:53	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0010	11/27/19 10:53	
1,2-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/27/19 10:53	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	0.0018	11/27/19 10:53	
1,3-Dichloropropane	mg/kg	ND	0.0050	0.0019	11/27/19 10:53	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
2,2-Dichloropropane	mg/kg	ND	0.0050	0.00049	11/27/19 10:53	
2-Butanone (MEK)	mg/kg	ND	0.10	0.012	11/27/19 10:53	
2-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
2-Hexanone	mg/kg	ND	0.050	0.0052	11/27/19 10:53	
4-Chlorotoluene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.050	0.0037	11/27/19 10:53	
Acetone	mg/kg	ND	0.10	0.0094	11/27/19 10:53	
Benzene	mg/kg	ND	0.0050	0.00090	11/27/19 10:53	
Bromobenzene	mg/kg	ND	0.0050	0.0014	11/27/19 10:53	
Bromochloromethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
Bromodichloromethane	mg/kg	ND	0.0050	0.00098	11/27/19 10:53	
Bromoform	mg/kg	ND	0.0050	0.0024	11/27/19 10:53	
Bromomethane	mg/kg	ND	0.010	0.0024	11/27/19 10:53	IH
Carbon tetrachloride	mg/kg	ND	0.0050	0.00096	11/27/19 10:53	
Chlorobenzene	mg/kg	ND	0.0050	0.00097	11/27/19 10:53	
Chloroethane	mg/kg	ND	0.010	0.0021	11/27/19 10:53	IK
Chloroform	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
Chloromethane	mg/kg	ND	0.010	0.0033	11/27/19 10:53	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00087	11/27/19 10:53	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	0.0023	11/27/19 10:53	
Dibromochloromethane	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

METHOD BLANK: 2746337

Matrix: Solid

Associated Lab Samples: 92454751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
Dichlorodifluoromethane	mg/kg	ND	0.010	0.0041	11/27/19 10:53	
Diisopropyl ether	mg/kg	ND	0.0050	0.0029	11/27/19 10:53	
Ethylbenzene	mg/kg	ND	0.0050	0.0011	11/27/19 10:53	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	0.0025	11/27/19 10:53	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	0.0014	11/27/19 10:53	
m&p-Xylene	mg/kg	ND	0.010	0.0024	11/27/19 10:53	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	0.0029	11/27/19 10:53	
Methylene Chloride	mg/kg	0.014J	0.020	0.0059	11/27/19 10:53	IH,v1
n-Butylbenzene	mg/kg	ND	0.0050	0.0028	11/27/19 10:53	
n-Propylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	
Naphthalene	mg/kg	ND	0.0050	0.0042	11/27/19 10:53	
o-Xylene	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
p-Isopropyltoluene	mg/kg	ND	0.0050	0.0024	11/27/19 10:53	
sec-Butylbenzene	mg/kg	ND	0.0050	0.0021	11/27/19 10:53	
Styrene	mg/kg	ND	0.0050	0.0015	11/27/19 10:53	
tert-Butylbenzene	mg/kg	ND	0.0050	0.0017	11/27/19 10:53	v2
Tetrachloroethene	mg/kg	ND	0.0050	0.0016	11/27/19 10:53	
Toluene	mg/kg	ND	0.0050	0.0016	11/27/19 10:53	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.00098	11/27/19 10:53	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	0.00088	11/27/19 10:53	
Trichloroethene	mg/kg	ND	0.0050	0.0013	11/27/19 10:53	
Trichlorofluoromethane	mg/kg	ND	0.0050	0.0012	11/27/19 10:53	
Vinyl acetate	mg/kg	ND	0.050	0.016	11/27/19 10:53	
Vinyl chloride	mg/kg	ND	0.010	0.0019	11/27/19 10:53	
Xylene (Total)	mg/kg	ND	0.010	0.0035	11/27/19 10:53	
1,2-Dichloroethane-d4 (S)	%	95	70-132		11/27/19 10:53	
4-Bromofluorobenzene (S)	%	105	70-130		11/27/19 10:53	
Toluene-d8 (S)	%	105	70-130		11/27/19 10:53	

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.050	100	70-130	
1,1,1-Trichloroethane	mg/kg	0.05	0.050	101	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.049	98	55-130	
1,1,2-Trichloroethane	mg/kg	0.05	0.049	98	70-130	
1,1-Dichloroethane	mg/kg	0.05	0.047	93	68-130	
1,1-Dichloroethene	mg/kg	0.05	0.049	98	70-130	
1,1-Dichloropropene	mg/kg	0.05	0.054	109	70-130	
1,2,3-Trichlorobenzene	mg/kg	0.05	0.046	93	70-130	
1,2,3-Trichloropropane	mg/kg	0.05	0.050	99	70-130	
1,2,4-Trichlorobenzene	mg/kg	0.05	0.047	93	70-130	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.048	96	69-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454751

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	0.05	0.049	99	57-141	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.050	100	70-130	
1,2-Dichlorobenzene	mg/kg	0.05	0.046	92	70-130	
1,2-Dichloroethane	mg/kg	0.05	0.046	92	70-130	
1,2-Dichloropropane	mg/kg	0.05	0.048	96	70-130	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.048	96	70-130	
1,3-Dichlorobenzene	mg/kg	0.05	0.048	95	70-130	
1,3-Dichloropropane	mg/kg	0.05	0.050	100	70-130	
1,4-Dichlorobenzene	mg/kg	0.05	0.047	94	70-130	
2,2-Dichloropropane	mg/kg	0.05	0.050	101	70-130	
2-Butanone (MEK)	mg/kg	0.1	0.10J	100	60-130	
2-Chlorotoluene	mg/kg	0.05	0.049	97	70-130	
2-Hexanone	mg/kg	0.1	0.10	105	70-132	
4-Chlorotoluene	mg/kg	0.05	0.048	96	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.1	0.10	102	69-130	
Acetone	mg/kg	0.1	0.095J	95	49-148	
Benzene	mg/kg	0.05	0.050	99	70-130	
Bromobenzene	mg/kg	0.05	0.047	95	70-130	
Bromochloromethane	mg/kg	0.05	0.044	87	70-130	
Bromodichloromethane	mg/kg	0.05	0.048	97	70-130	
Bromoform	mg/kg	0.05	0.050	100	68-136	
Bromomethane	mg/kg	0.05	0.055	110	60-140	IH
Carbon tetrachloride	mg/kg	0.05	0.051	101	70-130	
Chlorobenzene	mg/kg	0.05	0.049	98	70-130	
Chloroethane	mg/kg	0.05	0.057	114	51-147	IK
Chloroform	mg/kg	0.05	0.046	93	70-130	
Chloromethane	mg/kg	0.05	0.053	106	48-130	
cis-1,2-Dichloroethene	mg/kg	0.05	0.046	93	70-130	
cis-1,3-Dichloropropene	mg/kg	0.05	0.049	98	70-130	
Dibromochloromethane	mg/kg	0.05	0.051	102	70-130	
Dibromomethane	mg/kg	0.05	0.046	91	70-130	
Dichlorodifluoromethane	mg/kg	0.05	0.054	109	49-130	
Diisopropyl ether	mg/kg	0.05	0.048	96	66-130	
Ethylbenzene	mg/kg	0.05	0.050	100	70-130	
Hexachloro-1,3-butadiene	mg/kg	0.05	0.049	99	70-130	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.051	102	70-130	
m&p-Xylene	mg/kg	0.1	0.10	100	70-130	
Methyl-tert-butyl ether	mg/kg	0.05	0.049	98	70-130	
Methylene Chloride	mg/kg	0.05	0.064	128	50-137	IH,v1
n-Butylbenzene	mg/kg	0.05	0.049	98	70-130	
n-Propylbenzene	mg/kg	0.05	0.050	100	70-130	
Naphthalene	mg/kg	0.05	0.047	94	70-131	
o-Xylene	mg/kg	0.05	0.050	100	70-130	
p-Isopropyltoluene	mg/kg	0.05	0.049	99	70-130	
sec-Butylbenzene	mg/kg	0.05	0.050	100	70-130	
Styrene	mg/kg	0.05	0.050	99	70-130	
tert-Butylbenzene	mg/kg	0.05	0.050	100	69-130	v3

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

LABORATORY CONTROL SAMPLE: 2746338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	0.05	0.051	102	56-130	
Toluene	mg/kg	0.05	0.047	93	70-130	
trans-1,2-Dichloroethene	mg/kg	0.05	0.047	94	70-130	
trans-1,3-Dichloropropene	mg/kg	0.05	0.050	100	70-130	
Trichloroethene	mg/kg	0.05	0.052	104	70-141	
Trichlorofluoromethane	mg/kg	0.05	0.057	114	67-130	
Vinyl acetate	mg/kg	0.1	0.096	96	10-136	
Vinyl chloride	mg/kg	0.05	0.055	109	67-130	
Xylene (Total)	mg/kg	0.15	0.15	100	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2746340

Parameter	Units	92454745002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.016	0.0090	56	52-133	
1,1,1-Trichloroethane	mg/kg	ND	0.016	0.0084	52	49-137	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.016	0.012	72	39-150	
1,1,2-Trichloroethane	mg/kg	ND	0.016	0.011	70	48-140	
1,1-Dichloroethane	mg/kg	ND	0.016	0.0096	60	46-135	
1,1-Dichloroethene	mg/kg	ND	0.016	0.0090	56	38-149	
1,1-Dichloropropene	mg/kg	ND	0.016	0.0084	52	41-140	
1,2,3-Trichlorobenzene	mg/kg	ND	0.016	0.010	64	10-158	
1,2,3-Trichloropropane	mg/kg	ND	0.016	0.012	75	33-157	
1,2,4-Trichlorobenzene	mg/kg	ND	0.016	0.0099	61	10-155	
1,2,4-Trimethylbenzene	mg/kg	ND	0.016	0.0091	57	24-154	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.016	0.013	81	33-158	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.016	0.011	66	40-136	
1,2-Dichlorobenzene	mg/kg	ND	0.016	0.010	63	27-146	
1,2-Dichloroethane	mg/kg	ND	0.016	0.011	69	49-140	
1,2-Dichloropropane	mg/kg	ND	0.016	0.010	62	44-143	
1,3,5-Trimethylbenzene	mg/kg	ND	0.016	0.0087	54	40-144	
1,3-Dichlorobenzene	mg/kg	ND	0.016	0.0097	60	33-140	
1,3-Dichloropropane	mg/kg	ND	0.016	0.011	66	47-147	
1,4-Dichlorobenzene	mg/kg	ND	0.016	0.010	62	35-139	
2,2-Dichloropropane	mg/kg	ND	0.016	0.0086	53	41-140	
2-Butanone (MEK)	mg/kg	ND	0.032	0.021J	64	10-181	
2-Chlorotoluene	mg/kg	ND	0.016	0.0092	57	38-147	
2-Hexanone	mg/kg	ND	0.032	0.025J	76	18-169	
4-Chlorotoluene	mg/kg	ND	0.016	0.0092	57	36-145	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.032	0.025J	78	16-175	
Acetone	mg/kg	ND	0.032	0.029J	89	10-200	
Benzene	mg/kg	ND	0.016	0.0094	58	46-136	
Bromobenzene	mg/kg	ND	0.016	0.011	67	38-149	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

MATRIX SPIKE SAMPLE: 2746340		92454745002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	0.016	0.010	65	44-142	
Bromodichloromethane	mg/kg	ND	0.016	0.0099	62	41-140	
Bromoform	mg/kg	ND	0.016	0.010	65	34-145	
Bromomethane	mg/kg	ND	0.016	0.0084	52	14-162	IH
Carbon tetrachloride	mg/kg	ND	0.016	0.011	67	44-141	
Chlorobenzene	mg/kg	ND	0.016	0.0095	59	39-141	
Chloroethane	mg/kg	ND	0.016	0.011	70	10-182	IK
Chloroform	mg/kg	ND	0.016	0.010	64	45-140	
Chloromethane	mg/kg	ND	0.016	0.010	62	19-149	
cis-1,2-Dichloroethene	mg/kg	ND	0.016	0.0094	58	38-150	
cis-1,3-Dichloropropene	mg/kg	ND	0.016	0.0099	61	30-144	
Dibromochloromethane	mg/kg	ND	0.016	0.010	63	36-145	
Dibromomethane	mg/kg	ND	0.016	0.012	74	41-145	
Dichlorodifluoromethane	mg/kg	ND	0.016	0.0091	57	16-146	
Diisopropyl ether	mg/kg	ND	0.016	0.0097	60	41-143	
Ethylbenzene	mg/kg	ND	0.016	0.0092	57	35-144	
Hexachloro-1,3-butadiene	mg/kg	ND	0.016	0.0081	50	10-160	
Isopropylbenzene (Cumene)	mg/kg	ND	0.016	0.0086	53	30-152	
m&p-Xylene	mg/kg	ND	0.032	0.018	56	33-145	
Methyl-tert-butyl ether	mg/kg	ND	0.016	0.011	68	49-140	
Methylene Chloride	mg/kg	ND	0.016	0.011J	66	10-174	IH,v1
n-Butylbenzene	mg/kg	ND	0.016	0.0081	50	10-160	
n-Propylbenzene	mg/kg	ND	0.016	0.0085	53	24-159	
Naphthalene	mg/kg	ND	0.016	0.012	73	10-171	
o-Xylene	mg/kg	ND	0.016	0.0096	59	31-150	
p-Isopropyltoluene	mg/kg	ND	0.016	0.0083	52	21-154	
sec-Butylbenzene	mg/kg	ND	0.016	0.0082	51	19-159	
Styrene	mg/kg	ND	0.016	0.0098	61	15-152	
tert-Butylbenzene	mg/kg	ND	0.016	0.0073	45	31-141	v3
Tetrachloroethene	mg/kg	ND	0.016	0.0077	48	19-141	
Toluene	mg/kg	ND	0.016	0.0094	59	31-146	
trans-1,2-Dichloroethene	mg/kg	ND	0.016	0.010	62	28-157	
trans-1,3-Dichloropropene	mg/kg	ND	0.016	0.010	64	25-146	
Trichloroethene	mg/kg	ND	0.016	0.0087	54	34-149	
Trichlorofluoromethane	mg/kg	ND	0.016	0.0093	58	10-167	
Vinyl acetate	mg/kg	ND	0.032	0.025J	78	10-200	
Vinyl chloride	mg/kg	ND	0.016	0.010	64	36-155	
Xylene (Total)	mg/kg	ND	0.049	0.028	57	29-148	
1,2-Dichloroethane-d4 (S)	%				99	70-132	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				103	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454751

SAMPLE DUPLICATE: 2746339

Parameter	Units	92454745001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	IH
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	IK
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454751

SAMPLE DUPLICATE: 2746339

Parameter	Units	92454745001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	IH,v1
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	v2
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	91			
4-Bromofluorobenzene (S)	%	108	102			
Toluene-d8 (S)	%	105	105			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

QC Batch: 511556	Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod.	Analysis Description: 8260D MSV Soil SIM
Associated Lab Samples: 92454751001	

METHOD BLANK: 2743926 Matrix: Solid  
Associated Lab Samples: 92454751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	0.010	0.0030	11/25/19 11:15	
1,2-Dichloroethane-d4 (S)	%	103	50-150		11/25/19 11:15	
Toluene-d8 (S)	%	99	50-150		11/25/19 11:15	

LABORATORY CONTROL SAMPLE: 2743927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.04	0.040	99	50-150	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE SAMPLE: 2744454

Parameter	Units	92454623002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	0.0047J	0.045	0.052	104	50-150	
1,2-Dichloroethane-d4 (S)	%				95	50-150	
Toluene-d8 (S)	%				105	50-150	

SAMPLE DUPLICATE: 2744453

Parameter	Units	92454623001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	95		30	
Toluene-d8 (S)	%	100	109		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

QC Batch: 511777 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Associated Lab Samples: 92454751001

METHOD BLANK: 2744914 Matrix: Solid  
Associated Lab Samples: 92454751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	0.076	11/26/19 20:28	
1,2-Dichlorobenzene	mg/kg	ND	0.33	0.071	11/26/19 20:28	
1,3-Dichlorobenzene	mg/kg	ND	0.33	0.074	11/26/19 20:28	
1,4-Dichlorobenzene	mg/kg	ND	0.33	0.073	11/26/19 20:28	
1-Methylnaphthalene	mg/kg	ND	0.33	0.088	11/26/19 20:28	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	0.33	0.092	11/26/19 20:28	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	0.086	11/26/19 20:28	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	0.083	11/26/19 20:28	
2,4-Dichlorophenol	mg/kg	ND	0.33	0.11	11/26/19 20:28	
2,4-Dimethylphenol	mg/kg	ND	0.33	0.082	11/26/19 20:28	
2,4-Dinitrophenol	mg/kg	ND	1.6	1.1	11/26/19 20:28	
2,4-Dinitrotoluene	mg/kg	ND	0.33	0.087	11/26/19 20:28	
2,6-Dinitrotoluene	mg/kg	ND	0.33	0.086	11/26/19 20:28	
2-Chloronaphthalene	mg/kg	ND	0.33	0.074	11/26/19 20:28	
2-Chlorophenol	mg/kg	ND	0.33	0.077	11/26/19 20:28	
2-Methylnaphthalene	mg/kg	ND	0.33	0.084	11/26/19 20:28	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	0.073	11/26/19 20:28	
2-Nitroaniline	mg/kg	ND	1.6	0.17	11/26/19 20:28	
2-Nitrophenol	mg/kg	ND	0.33	0.10	11/26/19 20:28	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.33	0.083	11/26/19 20:28	
3,3'-Dichlorobenzidine	mg/kg	ND	1.6	0.23	11/26/19 20:28	
3-Nitroaniline	mg/kg	ND	1.6	0.18	11/26/19 20:28	
4,6-Dinitro-2-methylphenol	mg/kg	ND	0.66	0.53	11/26/19 20:28	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	0.087	11/26/19 20:28	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	0.20	11/26/19 20:28	
4-Chloroaniline	mg/kg	ND	1.6	0.20	11/26/19 20:28	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	0.086	11/26/19 20:28	
4-Nitroaniline	mg/kg	ND	0.66	0.16	11/26/19 20:28	
4-Nitrophenol	mg/kg	ND	1.6	0.53	11/26/19 20:28	
Acenaphthene	mg/kg	ND	0.33	0.085	11/26/19 20:28	
Acenaphthylene	mg/kg	ND	0.33	0.078	11/26/19 20:28	
Aniline	mg/kg	ND	0.33	0.074	11/26/19 20:28	
Anthracene	mg/kg	ND	0.33	0.086	11/26/19 20:28	
Benzo(a)anthracene	mg/kg	ND	0.33	0.10	11/26/19 20:28	
Benzo(a)pyrene	mg/kg	ND	0.33	0.14	11/26/19 20:28	
Benzo(b)fluoranthene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Benzo(k)fluoranthene	mg/kg	ND	0.33	0.14	11/26/19 20:28	
Benzoic Acid	mg/kg	ND	1.6	0.36	11/26/19 20:28	
Benzyl alcohol	mg/kg	ND	0.66	0.18	11/26/19 20:28	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	0.088	11/26/19 20:28	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

METHOD BLANK: 2744914

Matrix: Solid

Associated Lab Samples: 92454751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	0.070	11/26/19 20:28	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	0.11	11/26/19 20:28	
Butylbenzylphthalate	mg/kg	ND	0.33	0.088	11/26/19 20:28	
Chrysene	mg/kg	ND	0.33	0.096	11/26/19 20:28	
Di-n-butylphthalate	mg/kg	ND	0.33	0.081	11/26/19 20:28	
Di-n-octylphthalate	mg/kg	ND	0.33	0.19	11/26/19 20:28	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Dibenzofuran	mg/kg	ND	0.33	0.082	11/26/19 20:28	
Diethylphthalate	mg/kg	ND	0.33	0.072	11/26/19 20:28	
Dimethylphthalate	mg/kg	ND	0.33	0.075	11/26/19 20:28	
Fluoranthene	mg/kg	ND	0.33	0.10	11/26/19 20:28	
Fluorene	mg/kg	ND	0.33	0.088	11/26/19 20:28	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	0.080	11/26/19 20:28	
Hexachlorobenzene	mg/kg	ND	0.33	0.084	11/26/19 20:28	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	0.13	11/26/19 20:28	
Hexachloroethane	mg/kg	ND	0.33	0.075	11/26/19 20:28	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	0.15	11/26/19 20:28	
Isophorone	mg/kg	ND	0.33	0.072	11/26/19 20:28	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	0.092	11/26/19 20:28	
N-Nitrosodimethylamine	mg/kg	ND	0.33	0.093	11/26/19 20:28	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	0.084	11/26/19 20:28	
Naphthalene	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Nitrobenzene	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Pentachlorophenol	mg/kg	ND	1.6	0.15	11/26/19 20:28	
Phenanthrene	mg/kg	ND	0.33	0.083	11/26/19 20:28	
Phenol	mg/kg	ND	0.33	0.079	11/26/19 20:28	
Pyrene	mg/kg	ND	0.33	0.091	11/26/19 20:28	
Pyridine	mg/kg	ND	0.33	0.084	11/26/19 20:28	
2,4,6-Tribromophenol (S)	%	97	27-110		11/26/19 20:28	
2-Fluorobiphenyl (S)	%	83	30-110		11/26/19 20:28	
2-Fluorophenol (S)	%	82	13-110		11/26/19 20:28	
Nitrobenzene-d5 (S)	%	80	23-110		11/26/19 20:28	
Phenol-d6 (S)	%	79	22-110		11/26/19 20:28	
Terphenyl-d14 (S)	%	95	28-110		11/26/19 20:28	

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.7	1.4	86	52-130	
1,2-Dichlorobenzene	mg/kg	1.7	1.4	86	51-130	
1,3-Dichlorobenzene	mg/kg	1.7	1.4	85	50-130	
1,4-Dichlorobenzene	mg/kg	1.7	1.4	84	49-130	
1-Methylnaphthalene	mg/kg	1.7	1.5	87	55-130	
2,2'-Oxybis(1-chloropropane)	mg/kg	1.7	1.3	78	30-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454751

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	mg/kg	1.7	1.5	88	55-130	
2,4,6-Trichlorophenol	mg/kg	1.7	1.5	92	57-130	
2,4-Dichlorophenol	mg/kg	1.7	1.5	88	56-130	
2,4-Dimethylphenol	mg/kg	1.7	1.5	90	51-130	
2,4-Dinitrophenol	mg/kg	8.4	7.3	87	27-133	
2,4-Dinitrotoluene	mg/kg	1.7	1.5	92	61-130	
2,6-Dinitrotoluene	mg/kg	1.7	1.5	92	60-130	
2-Chloronaphthalene	mg/kg	1.7	1.5	89	52-130	
2-Chlorophenol	mg/kg	1.7	1.5	87	54-130	
2-Methylnaphthalene	mg/kg	1.7	1.5	89	54-130	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.4	84	51-130	
2-Nitroaniline	mg/kg	3.3	3.0	90	51-130	
2-Nitrophenol	mg/kg	1.7	1.5	88	49-130	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.4	83	11-163	
3,3'-Dichlorobenzidine	mg/kg	3.3	2.5	75	10-132	
3-Nitroaniline	mg/kg	3.3	2.6	78	55-130	
4,6-Dinitro-2-methylphenol	mg/kg	3.3	3.6	107	47-142	
4-Bromophenylphenyl ether	mg/kg	1.7	1.5	91	59-130	
4-Chloro-3-methylphenol	mg/kg	3.3	2.9	88	55-130	
4-Chloroaniline	mg/kg	3.3	2.9	86	54-130	
4-Chlorophenylphenyl ether	mg/kg	1.7	1.5	90	58-130	
4-Nitroaniline	mg/kg	3.3	2.8	83	54-130	
4-Nitrophenol	mg/kg	8.4	6.9	83	48-130	
Acenaphthene	mg/kg	1.7	1.6	95	60-130	
Acenaphthylene	mg/kg	1.7	1.7	101	60-130	
Aniline	mg/kg	1.7	1.3	81	43-130	
Anthracene	mg/kg	1.7	1.7	101	63-130	
Benzo(a)anthracene	mg/kg	1.7	1.6	93	59-130	
Benzo(a)pyrene	mg/kg	1.7	1.8	105	57-130	
Benzo(b)fluoranthene	mg/kg	1.7	1.7	100	54-130	
Benzo(g,h,i)perylene	mg/kg	1.7	1.8	108	59-130	
Benzo(k)fluoranthene	mg/kg	1.7	1.7	103	54-130	
Benzoic Acid	mg/kg	8.4	6.2	74	19-130	
Benzyl alcohol	mg/kg	3.3	2.8	85	50-130	
bis(2-Chloroethoxy)methane	mg/kg	1.7	1.5	87	54-130	
bis(2-Chloroethyl) ether	mg/kg	1.7	1.5	92	48-130	
bis(2-Ethylhexyl)phthalate	mg/kg	1.7	1.4	86	45-134	
Butylbenzylphthalate	mg/kg	1.7	1.5	87	46-138	
Chrysene	mg/kg	1.7	1.5	89	58-130	
Di-n-butylphthalate	mg/kg	1.7	1.4	86	60-130	
Di-n-octylphthalate	mg/kg	1.7	1.5	91	53-130	
Dibenz(a,h)anthracene	mg/kg	1.7	1.7	102	59-130	
Dibenzofuran	mg/kg	1.7	1.5	90	60-130	
Diethylphthalate	mg/kg	1.7	1.4	85	60-130	
Dimethylphthalate	mg/kg	1.7	1.4	86	60-130	
Fluoranthene	mg/kg	1.7	1.6	95	65-130	
Fluorene	mg/kg	1.7	1.6	94	63-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

LABORATORY CONTROL SAMPLE: 2744915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	1.7	1.4	86	46-130	
Hexachlorobenzene	mg/kg	1.7	1.5	92	58-130	
Hexachlorocyclopentadiene	mg/kg	1.7	1.8	107	23-130	
Hexachloroethane	mg/kg	1.7	1.5	87	47-130	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.7	104	60-130	
Isophorone	mg/kg	1.7	1.4	86	49-130	
N-Nitroso-di-n-propylamine	mg/kg	1.7	1.4	86	47-130	
N-Nitrosodimethylamine	mg/kg	1.7	1.5	91	45-130	
N-Nitrosodiphenylamine	mg/kg	1.7	1.5	87	59-130	
Naphthalene	mg/kg	1.7	1.5	91	55-130	
Nitrobenzene	mg/kg	1.7	1.4	86	49-130	
Pentachlorophenol	mg/kg	3.3	2.9	88	10-132	
Phenanthrene	mg/kg	1.7	1.6	97	62-130	
Phenol	mg/kg	1.7	1.6	95	46-130	
Pyrene	mg/kg	1.7	1.6	98	53-130	
Pyridine	mg/kg	1.7	1.1	67	37-130	
2,4,6-Tribromophenol (S)	%			111	27-110	S0
2-Fluorobiphenyl (S)	%			96	30-110	
2-Fluorophenol (S)	%			95	13-110	
Nitrobenzene-d5 (S)	%			88	23-110	
Phenol-d6 (S)	%			94	22-110	
Terphenyl-d14 (S)	%			99	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744916 2744917

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92449762007 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.3J	74	76	18-130		30	
1,2-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.2J	68	73	14-130		30	
1,3-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	65	73	12-130		30	
1,4-Dichlorobenzene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	65	69	10-130		30	
1-Methylnaphthalene	mg/kg	ND	1.7	1.7	1.7	1.6J	1.6J	15	10	12-130		30	M1
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	1.7	1.7	1.7	1.1J	1.1J	64	67	10-130		30	
2,4,5-Trichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	63	72	13-130		30	
2,4,6-Trichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	66	71	17-130		30	
2,4-Dichlorophenol	mg/kg	ND	1.7	1.7	1.7	1.2J	1.2J	69	73	10-130		30	
2,4-Dimethylphenol	mg/kg	ND	1.7	1.7	1.7	2.0	1.7	117	99	10-130	16	30	
2,4-Dinitrophenol	mg/kg	ND	8.4	8.4	8.4	ND	ND	41	41	10-130		30	
2,4-Dinitrotoluene	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	64	71	24-130		30	
2,6-Dinitrotoluene	mg/kg	ND	1.7	1.7	1.7	1.9	1.6J	114	94	23-130		30	
2-Chloronaphthalene	mg/kg	ND	1.7	1.7	1.7	1.2J	1.3J	74	75	19-130		30	
2-Chlorophenol	mg/kg	ND	1.7	1.7	1.7	1.1J	1.2J	67	72	10-130		30	
2-Methylnaphthalene	mg/kg	ND	1.7	1.7	1.7	1.4J	1.4J	46	44	18-130		30	
2-Methylphenol(o-Cresol)	mg/kg	ND	1.7	1.7	1.7	1.0J	1.1J	62	63	10-130		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92454751

Parameter	Units	2744916		2744917		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92449762007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
2-Nitroaniline	mg/kg	ND	3.4	3.4	1.9J	2.0J	56	59	17-130	30		
2-Nitrophenol	mg/kg	ND	1.7	1.7	1.2J	1.3J	73	78	10-130	30		
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	1.7	1.7	1.0J	1.1J	60	64	10-130	30		
3,3'-Dichlorobenzidine	mg/kg	ND	3.4	3.4	ND	ND	30	21	10-130	30		
3-Nitroaniline	mg/kg	ND	3.4	3.4	2.7J	3.5J	79	103	24-130	30		
4,6-Dinitro-2-methylphenol	mg/kg	ND	3.4	3.4	ND	ND	50	62	10-152	30		
4-Bromophenylphenyl ether	mg/kg	ND	1.7	1.7	1.4J	1.5J	82	89	29-130	30		
4-Chloro-3-methylphenol	mg/kg	ND	3.4	3.4	2.1J	2.3J	62	68	17-130	30		
4-Chloroaniline	mg/kg	ND	3.4	3.4	1.9J	2.1J	58	63	14-130	30		
4-Chlorophenylphenyl ether	mg/kg	ND	1.7	1.7	1.6J	1.4J	92	84	25-130	30		
4-Nitroaniline	mg/kg	ND	3.4	3.4	2.1J	2.3J	62	69	22-130	30		
4-Nitrophenol	mg/kg	ND	8.4	8.4	6.3J	5.9J	75	70	10-130	30		
Acenaphthene	mg/kg	ND	1.7	1.7	1.2J	1.3J	71	78	20-130	30		
Acenaphthylene	mg/kg	ND	1.7	1.7	1.4J	1.3J	85	77	25-130	30		
Aniline	mg/kg	ND	1.7	1.7	0.83J	0.88J	49	52	10-130	30		
Anthracene	mg/kg	ND	1.7	1.7	1.3J	1.4J	79	82	29-130	30		
Benzo(a)anthracene	mg/kg	ND	1.7	1.7	1.2J	1.3J	70	75	19-130	30		
Benzo(a)pyrene	mg/kg	ND	1.7	1.7	1.2J	1.3J	70	75	12-130	30		
Benzo(b)fluoranthene	mg/kg	ND	1.7	1.7	1.1J	1.2J	67	71	14-130	30		
Benzo(g,h,i)perylene	mg/kg	ND	1.7	1.7	1.2J	1.3J	72	74	10-130	30		
Benzo(k)fluoranthene	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	73	14-130	30		
Benzoic Acid	mg/kg	ND	8.4	8.4	5.0J	5.1J	59	61	10-130	30		
Benzyl alcohol	mg/kg	ND	3.4	3.4	1.9J	2.2J	57	65	13-130	30		
bis(2- Chloroethoxy)methane	mg/kg	ND	1.7	1.7	1.2J	1.2J	70	73	16-130	30		
bis(2-Chloroethyl) ether	mg/kg	ND	1.7	1.7	1.1J	1.1J	67	68	11-130	30		
bis(2-Ethylhexyl)phthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	64	70	21-130	30		
Butylbenzylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	68	71	23-130	30		
Chrysene	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	68	22-130	30		
Di-n-butylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	64	69	30-130	30		
Di-n-octylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	72	23-142	30		
Dibenz(a,h)anthracene	mg/kg	ND	1.7	1.7	1.1J	1.1J	64	67	10-130	30		
Dibenzofuran	mg/kg	ND	1.7	1.7	1.3J	1.3J	75	80	24-130	30		
Diethylphthalate	mg/kg	ND	1.7	1.7	1.1J	1.1J	66	64	26-130	30		
Dimethylphthalate	mg/kg	ND	1.7	1.7	1.2J	1.1J	72	66	22-130	30		
Fluoranthene	mg/kg	ND	1.7	1.7	1.2J	1.3J	72	74	33-130	30		
Fluorene	mg/kg	ND	1.7	1.7	1.4J	1.3J	82	76	22-130	30		
Hexachloro-1,3-butadiene	mg/kg	ND	1.7	1.7	1.2J	1.3J	73	76	13-130	30		
Hexachlorobenzene	mg/kg	ND	1.7	1.7	1.3J	1.5J	80	87	29-130	30		
Hexachlorocyclopentadiene	mg/kg	ND	1.7	1.7	1.1J	1.2J	65	69	10-130	30		
Hexachloroethane	mg/kg	ND	1.7	1.7	1.1J	1.3J	63	74	10-130	30		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	1.7	1.7	1.1J	1.3J	67	74	10-130	30		
Isophorone	mg/kg	ND	1.7	1.7	1.2J	1.2J	70	72	13-130	30		
N-Nitroso-di-n-propylamine	mg/kg	ND	1.7	1.7	1.1J	1.2J	67	71	12-130	30		
N-Nitrosodimethylamine	mg/kg	ND	1.7	1.7	0.58J	0.60J	35	35	11-130	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92454751

Parameter	Units	2744916		2744917		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92449762007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
N-Nitrosodiphenylamine	mg/kg	ND	1.7	1.7	3.0	2.0	180	117	15-130	42	30	M1,R1	
Naphthalene	mg/kg	ND	1.7	1.7	1.3J	1.3J	77	79	15-130		30		
Nitrobenzene	mg/kg	ND	1.7	1.7	1.1J	1.2J	68	69	12-130		30		
Pentachlorophenol	mg/kg	ND	3.4	3.4	2.2J	2.3J	65	68	10-130		30		
Phenanthrene	mg/kg	ND	1.7	1.7	1.4J	1.4J	82	84	27-130		30		
Phenol	mg/kg	ND	1.7	1.7	1.1J	1.2J	66	71	10-130		30		
Pyrene	mg/kg	ND	1.7	1.7	1.6J	1.6J	62	57	19-130		30		
Pyridine	mg/kg	ND	1.7	1.7	ND	0.46J	23	27	10-130		30		
2,4,6-Tribromophenol (S)	%						89	93	27-110				
2-Fluorobiphenyl (S)	%						57	67	30-110				
2-Fluorophenol (S)	%						56	65	13-110				
Nitrobenzene-d5 (S)	%						65	66	23-110			D3	
Phenol-d6 (S)	%						55	61	22-110				
Terphenyl-d14 (S)	%						59	71	28-110				

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92454751

### 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-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 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.

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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92454751

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### ANALYTE QUALIFIERS

v3 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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603

Pace Project No.: 92454751

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92454751001	IDW SOIL	EPA 3050B	511799	EPA 6010D	511946
92454751001	IDW SOIL	EPA 7471B	511178	EPA 7471B	511280
92454751001	IDW SOIL	EPA 3546	511777	EPA 8270E	512023
92454751001	IDW SOIL	EPA 5035A	512117	EPA 8260D	512123
92454751001	IDW SOIL	EPA 8260D Mod.	511556	EPA 8260D Mod.	511649
92454751001	IDW SOIL	ASTM D2974-87	511055		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: Haskell Hickman

Project: **WO# : 92454751**



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

Custody Seal Present?  Yes  No  
 Seals Intact?  Yes  No

Date/Initials Person Examining Contents: EAH 11-21-19

Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  IR Gun ID: 92T058 Type of ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp (°C): 2.4, 2.3 Correction Factor: Add/Subtract (°C) 0.0°C  
 Cooler Temp Corrected (°C): 2.4, 2.3

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>EAH 11-21-19</u> <u>SL</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: [Signature]  
 Project Manager SRF Review: [Signature]

Date: 11/21/19  
 Date: 11/21/19

\*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# : 92454751**  
PM: KRG Due Date: 12/02/19  
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-)	BP2N-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-)	D69H-40 mL VOA HCl (N/A)	V69T-40 mL VOA Na2S2O3 (N/A)	V69U-40 mL VOA Unp (N/A)	D69P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gase kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (N/A)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	D69U-40 mL Amber Unpreserved vials (N/A)		
1	/	/	/	/	/	/	/	/	2	/	/	3	/	/	/	/	/	/	/	12	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

**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.





December 10, 2019

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

RE: Project: ROW-603  
Pace Project No.: 92455130

Dear David Graham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 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



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ROW-603

Pace Project No.: 92455130

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### **Pace Analytical Services Charlotte**

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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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: ROW-603

Pace Project No.: 92455130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92455130001	IDW-GW	Water	11/22/19 13:30	11/22/19 15:57

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: ROW-603

Pace Project No.: 92455130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92455130001	IDW-GW	EPA 6010D	DS	7	PASI-A
		EPA 7470A	SOO	1	PASI-A
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	DLK	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455130

**Sample: IDW-GW**      **Lab ID: 92455130001**      Collected: 11/22/19 13:30      Received: 11/22/19 15:57      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	4.7	1	11/26/19 02:24	11/27/19 23:32	7440-38-2	
Barium	<b>253</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/27/19 23:32	7440-39-3	
Cadmium	ND	ug/L	1.0	0.40	1	11/26/19 02:24	11/27/19 23:32	7440-43-9	
Chromium	<b>17.1</b>	ug/L	5.0	1.0	1	11/26/19 02:24	11/27/19 23:32	7440-47-3	
Lead	ND	ug/L	5.0	1.6	1	11/26/19 02:24	11/27/19 23:32	7439-92-1	
Selenium	ND	ug/L	10.0	4.7	1	11/26/19 02:24	11/27/19 23:32	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/26/19 02:24	11/27/19 23:32	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.10	1	12/03/19 11:02	12/03/19 14:48	7439-97-6	
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	208-96-8	
Aniline	ND	ug/L	10.0	1.9	1	11/26/19 18:23	11/27/19 20:12	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.8	1	11/26/19 18:23	11/27/19 20:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	11/27/19 20:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	11/27/19 20:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.9	1	11/26/19 18:23	11/27/19 20:12	207-08-9	
Benzoic Acid	ND	ug/L	50.0	43.0	1	11/26/19 18:23	11/27/19 20:12	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	11/26/19 18:23	11/27/19 20:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	11/26/19 18:23	11/27/19 20:12	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/26/19 18:23	11/27/19 20:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.8	1	11/26/19 18:23	11/27/19 20:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.8	1	11/26/19 18:23	11/27/19 20:12	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	11/27/19 20:12	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.2	1	11/26/19 18:23	11/27/19 20:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	7005-72-3	
Chrysene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.5	1	11/26/19 18:23	11/27/19 20:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.3	1	11/26/19 18:23	11/27/19 20:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	11/27/19 20:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	11/27/19 20:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	3.0	1	11/26/19 18:23	11/27/19 20:12	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	120-83-2	
Diethylphthalate	ND	ug/L	10.0	2.4	1	11/26/19 18:23	11/27/19 20:12	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	131-11-3	
Di-n-butylphthalate	<b>3.2J</b>	ug/L	10.0	1.8	1	11/26/19 18:23	11/27/19 20:12	84-74-2	B,C9
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	15.2	1	11/26/19 18:23	11/27/19 20:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	40.5	1	11/26/19 18:23	11/27/19 20:12	51-28-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455130

**Sample: IDW-GW**      **Lab ID: 92455130001**      Collected: 11/22/19 13:30      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	11/26/19 18:23	11/27/19 20:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	11/26/19 18:23	11/27/19 20:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.1	1	11/26/19 18:23	11/27/19 20:12	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2.0	1	11/26/19 18:23	11/27/19 20:12	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2.0	1	11/26/19 18:23	11/27/19 20:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	193-39-5	
Isophorone	ND	ug/L	10.0	1.6	1	11/26/19 18:23	11/27/19 20:12	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	11/27/19 20:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	11/26/19 18:23	11/27/19 20:12	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	4.2	1	11/26/19 18:23	11/27/19 20:12	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.3	1	11/26/19 18:23	11/27/19 20:12	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.2	1	11/26/19 18:23	11/27/19 20:12	100-01-6	
Nitrobenzene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	11/27/19 20:12	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.5	1	11/26/19 18:23	11/27/19 20:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.2	1	11/26/19 18:23	11/27/19 20:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.2	1	11/26/19 18:23	11/27/19 20:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	2.8	1	11/26/19 18:23	11/27/19 20:12	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	2.2	1	11/26/19 18:23	11/27/19 20:12	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.7	1	11/26/19 18:23	11/27/19 20:12	85-01-8	
Phenol	ND	ug/L	10.0	0.92	1	11/26/19 18:23	11/27/19 20:12	108-95-2	
Pyrene	ND	ug/L	10.0	2.1	1	11/26/19 18:23	11/27/19 20:12	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.5	1	11/26/19 18:23	11/27/19 20:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.4	1	11/26/19 18:23	11/27/19 20:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.5	1	11/26/19 18:23	11/27/19 20:12	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	31	%	13-130		1	11/26/19 18:23	11/27/19 20:12	4165-60-0	
2-Fluorobiphenyl (S)	33	%	13-130		1	11/26/19 18:23	11/27/19 20:12	321-60-8	
Terphenyl-d14 (S)	130	%	25-130		1	11/26/19 18:23	11/27/19 20:12	1718-51-0	
Phenol-d6 (S)	36	%	10-130		1	11/26/19 18:23	11/27/19 20:12	13127-88-3	
2-Fluorophenol (S)	36	%	10-130		1	11/26/19 18:23	11/27/19 20:12	367-12-4	
2,4,6-Tribromophenol (S)	87	%	10-137		1	11/26/19 18:23	11/27/19 20:12	118-79-6	

**8260D MSV Low Level**

Analytical Method: EPA 8260D

Acetone	<b>16.3J</b>	ug/L	25.0	6.2	1	12/05/19 18:42	67-64-1	v1
Benzene	ND	ug/L	1.0	0.15	1	12/05/19 18:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1	12/05/19 18:42	108-86-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ROW-603  
Pace Project No.: 92455130

**Sample: IDW-GW**      **Lab ID: 92455130001**      Collected: 11/22/19 13:30      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260D MSV Low Level</b>									
Analytical Method: EPA 8260D									
Bromochloromethane	ND	ug/L	1.0	0.34	1		12/05/19 18:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		12/05/19 18:42	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		12/05/19 18:42	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		12/05/19 18:42	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		12/05/19 18:42	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		12/05/19 18:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/05/19 18:42	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		12/05/19 18:42	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		12/05/19 18:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		12/05/19 18:42	74-87-3	v2
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/05/19 18:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		12/05/19 18:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	0.26	1		12/05/19 18:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		12/05/19 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.26	1		12/05/19 18:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.46	1		12/05/19 18:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		12/05/19 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		12/05/19 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		12/05/19 18:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		12/05/19 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		12/05/19 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		12/05/19 18:42	107-06-2	
1,1-Dichloroethene	<b>1.4</b>	ug/L	1.0	0.24	1		12/05/19 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		12/05/19 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		12/05/19 18:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		12/05/19 18:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		12/05/19 18:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/05/19 18:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		12/05/19 18:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		12/05/19 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		12/05/19 18:42	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/05/19 18:42	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		12/05/19 18:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		12/05/19 18:42	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		12/05/19 18:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		12/05/19 18:42	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		12/05/19 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		12/05/19 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		12/05/19 18:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		12/05/19 18:42	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		12/05/19 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		12/05/19 18:42	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		12/05/19 18:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		12/05/19 18:42	127-18-4	
Toluene	<b>0.97J</b>	ug/L	1.0	0.24	1		12/05/19 18:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		12/05/19 18:42	87-61-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ROW-603

Pace Project No.: 92455130

**Sample: IDW-GW**      **Lab ID: 92455130001**      Collected: 11/22/19 13:30      Received: 11/22/19 15:57      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D							
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		12/05/19 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		12/05/19 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		12/05/19 18:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		12/05/19 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		12/05/19 18:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		12/05/19 18:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		12/05/19 18:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		12/05/19 18:42	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		12/05/19 18:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		12/05/19 18:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		12/05/19 18:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/05/19 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/05/19 18:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/05/19 18:42	2037-26-5	
<b>8260D MSV SIM</b>		Analytical Method: EPA 8260D Mod.							
1,4-Dioxane (p-Dioxane)	<b>2.5</b>	ug/L	2.0	1.2	1		11/26/19 14:59	123-91-1	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	119	%	50-150		1		11/26/19 14:59	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		11/26/19 14:59	2037-26-5	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

QC Batch: 513060      Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D      Analysis Description: 8260D MSV Low Level  
Associated Lab Samples: 92455130001

METHOD BLANK: 2750394      Matrix: Water  
Associated Lab Samples: 92455130001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	12/05/19 17:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	12/05/19 17:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	12/05/19 17:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	12/05/19 17:14	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	12/05/19 17:14	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	12/05/19 17:14	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	12/05/19 17:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	12/05/19 17:14	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	12/05/19 17:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	12/05/19 17:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	0.26	12/05/19 17:14	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.26	12/05/19 17:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	12/05/19 17:14	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	12/05/19 17:14	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	12/05/19 17:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	12/05/19 17:14	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	12/05/19 17:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	12/05/19 17:14	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	12/05/19 17:14	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	12/05/19 17:14	
2-Chlorotoluene	ug/L	ND	1.0	0.20	12/05/19 17:14	
2-Hexanone	ug/L	ND	5.0	0.57	12/05/19 17:14	
4-Chlorotoluene	ug/L	ND	1.0	0.20	12/05/19 17:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	12/05/19 17:14	
Acetone	ug/L	ND	25.0	6.2	12/05/19 17:14	v1
Benzene	ug/L	ND	1.0	0.15	12/05/19 17:14	
Bromobenzene	ug/L	ND	1.0	0.22	12/05/19 17:14	
Bromochloromethane	ug/L	ND	1.0	0.34	12/05/19 17:14	
Bromodichloromethane	ug/L	ND	1.0	0.26	12/05/19 17:14	
Bromoform	ug/L	ND	1.0	0.62	12/05/19 17:14	
Bromomethane	ug/L	ND	2.0	0.62	12/05/19 17:14	v2
Carbon tetrachloride	ug/L	ND	1.0	0.22	12/05/19 17:14	
Chlorobenzene	ug/L	ND	1.0	0.23	12/05/19 17:14	
Chloroethane	ug/L	ND	1.0	0.49	12/05/19 17:14	
Chloroform	ug/L	ND	5.0	2.3	12/05/19 17:14	
Chloromethane	ug/L	ND	1.0	0.39	12/05/19 17:14	v2
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	12/05/19 17:14	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	12/05/19 17:14	
Dibromochloromethane	ug/L	ND	1.0	0.41	12/05/19 17:14	
Dibromomethane	ug/L	ND	1.0	0.46	12/05/19 17:14	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	12/05/19 17:14	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

METHOD BLANK: 2750394

Matrix: Water

Associated Lab Samples: 92455130001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	12/05/19 17:14	
Ethylbenzene	ug/L	ND	1.0	0.26	12/05/19 17:14	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	12/05/19 17:14	
m&p-Xylene	ug/L	ND	2.0	0.41	12/05/19 17:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	12/05/19 17:14	
Methylene Chloride	ug/L	ND	5.0	3.7	12/05/19 17:14	
Naphthalene	ug/L	ND	1.0	0.35	12/05/19 17:14	
o-Xylene	ug/L	ND	1.0	0.22	12/05/19 17:14	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	12/05/19 17:14	
Styrene	ug/L	ND	1.0	0.27	12/05/19 17:14	
Tetrachloroethene	ug/L	ND	1.0	0.16	12/05/19 17:14	
Toluene	ug/L	ND	1.0	0.24	12/05/19 17:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	12/05/19 17:14	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	12/05/19 17:14	
Trichloroethene	ug/L	ND	1.0	0.22	12/05/19 17:14	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	12/05/19 17:14	
Vinyl acetate	ug/L	ND	2.0	1.4	12/05/19 17:14	
Vinyl chloride	ug/L	ND	1.0	0.24	12/05/19 17:14	
Xylene (Total)	ug/L	ND	1.0	0.63	12/05/19 17:14	
1,2-Dichloroethane-d4 (S)	%	102	70-130		12/05/19 17:14	
4-Bromofluorobenzene (S)	%	103	70-130		12/05/19 17:14	
Toluene-d8 (S)	%	101	70-130		12/05/19 17:14	

LABORATORY CONTROL SAMPLE: 2750395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.5	107	70-130	
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,2-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethene	ug/L	50	44.7	89	70-130	
1,1-Dichloropropene	ug/L	50	54.3	109	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.6	107	70-130	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	70-130	
1,2-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
1,2-Dichloropropane	ug/L	50	49.7	99	70-130	
1,3-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,3-Dichloropropane	ug/L	50	53.1	106	70-131	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92455130

LABORATORY CONTROL SAMPLE: 2750395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	53.1	106	69-130	
2-Butanone (MEK)	ug/L	100	107	107	64-135	
2-Chlorotoluene	ug/L	50	48.9	98	70-130	
2-Hexanone	ug/L	100	105	105	66-135	
4-Chlorotoluene	ug/L	50	49.8	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-130	
Acetone	ug/L	100	134	134	61-157 v1	
Benzene	ug/L	50	49.4	99	70-130	
Bromobenzene	ug/L	50	51.4	103	70-130	
Bromochloromethane	ug/L	50	46.9	94	70-130	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	52.9	106	70-130	
Bromomethane	ug/L	50	34.6	69	38-130 v3	
Carbon tetrachloride	ug/L	50	50.8	102	70-130	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	43.6	87	37-142	
Chloroform	ug/L	50	50.6	101	70-130	
Chloromethane	ug/L	50	38.3	77	48-130 v3	
cis-1,2-Dichloroethene	ug/L	50	49.5	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Dibromochloromethane	ug/L	50	54.3	109	70-130	
Dibromomethane	ug/L	50	49.3	99	70-130	
Dichlorodifluoromethane	ug/L	50	44.6	89	53-134	
Diisopropyl ether	ug/L	50	53.7	107	70-135	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.8	106	68-132	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Methylene Chloride	ug/L	50	51.6	103	67-132	
Naphthalene	ug/L	50	53.9	108	70-130	
o-Xylene	ug/L	50	49.4	99	70-131	
p-Isopropyltoluene	ug/L	50	53.3	107	70-130	
Styrene	ug/L	50	52.3	105	70-130	
Tetrachloroethene	ug/L	50	49.9	100	69-130	
Toluene	ug/L	50	48.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	43.4	87	63-130	
Vinyl acetate	ug/L	100	102	102	55-143	
Vinyl chloride	ug/L	50	45.6	91	70-131	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

MATRIX SPIKE SAMPLE:	2750397	92455130001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.8	89	73-134	
1,1,1-Trichloroethane	ug/L	ND	20	18.3	92	82-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.7	89	70-136	
1,1,2-Trichloroethane	ug/L	ND	20	17.8	89	70-135	
1,1-Dichloroethane	ug/L	ND	20	18.2	91	70-139	
1,1-Dichloroethene	ug/L	1.4	20	20.8	97	70-154	
1,1-Dichloropropene	ug/L	ND	20	19.1	95	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	20	16.4	82	70-135	
1,2,3-Trichloropropane	ug/L	ND	20	17.8	89	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	17.4	87	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.1	86	65-134	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.1	91	70-137	
1,2-Dichlorobenzene	ug/L	ND	20	16.8	84	70-133	
1,2-Dichloroethane	ug/L	ND	20	17.5	88	70-137	
1,2-Dichloropropane	ug/L	ND	20	17.9	90	70-140	
1,3-Dichlorobenzene	ug/L	ND	20	16.7	83	70-135	
1,3-Dichloropropane	ug/L	ND	20	18.7	94	70-143	
1,4-Dichlorobenzene	ug/L	ND	20	16.8	84	70-133	
2,2-Dichloropropane	ug/L	ND	20	19.3	96	61-148	
2-Butanone (MEK)	ug/L	ND	40	35.7	89	60-139	
2-Chlorotoluene	ug/L	ND	20	17.3	87	70-144	
2-Hexanone	ug/L	ND	40	35.9	90	65-138	
4-Chlorotoluene	ug/L	ND	20	17.0	85	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	46.3	116	65-135	
Acetone	ug/L	16.3J	40	51.7	89	60-148	
Benzene	ug/L	ND	20	18.3	92	70-151	
Bromobenzene	ug/L	ND	20	17.5	87	70-136	
Bromochloromethane	ug/L	ND	20	18.6	93	70-141	
Bromodichloromethane	ug/L	ND	20	18.8	94	70-138	
Bromoform	ug/L	ND	20	17.9	89	63-130	
Bromomethane	ug/L	ND	20	21.2	106	15-152	
Carbon tetrachloride	ug/L	ND	20	19.3	97	70-143	
Chlorobenzene	ug/L	ND	20	17.8	89	70-138	
Chloroethane	ug/L	ND	20	18.5	93	52-163	
Chloroform	ug/L	ND	20	19.0	89	70-139	
Chloromethane	ug/L	ND	20	14.0	69	41-139	
cis-1,2-Dichloroethene	ug/L	ND	20	17.9	90	70-141	
cis-1,3-Dichloropropene	ug/L	ND	20	18.9	94	70-137	
Dibromochloromethane	ug/L	ND	20	18.4	92	70-134	
Dibromomethane	ug/L	ND	20	18.9	95	70-138	
Dichlorodifluoromethane	ug/L	ND	20	16.9	84	47-155	
Diisopropyl ether	ug/L	ND	20	18.2	91	63-144	
Ethylbenzene	ug/L	ND	20	18.3	91	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	17.1	86	65-149	
m&p-Xylene	ug/L	ND	40	36.2	90	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	18.6	93	54-156	
Methylene Chloride	ug/L	ND	20	18.0	90	42-159	

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**QUALITY CONTROL DATA**

Project: ROW-603

Pace Project No.: 92455130

MATRIX SPIKE SAMPLE: 2750397		92455130001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	15.3	77	61-148	
o-Xylene	ug/L	ND	20	17.5	88	70-148	
p-Isopropyltoluene	ug/L	ND	20	17.9	90	70-146	
Styrene	ug/L	ND	20	17.6	88	70-135	
Tetrachloroethene	ug/L	ND	20	17.5	87	59-143	
Toluene	ug/L	0.97J	20	19.1	91	59-148	
trans-1,2-Dichloroethene	ug/L	ND	20	18.2	91	70-146	
trans-1,3-Dichloropropene	ug/L	ND	20	17.9	90	70-135	
Trichloroethene	ug/L	ND	20	18.0	90	70-147	
Trichlorofluoromethane	ug/L	ND	20	18.6	93	70-148	
Vinyl acetate	ug/L	ND	40	34.9	87	49-151	
Vinyl chloride	ug/L	ND	20	19.3	96	70-156	
Xylene (Total)	ug/L	ND	60	53.7	89	63-158	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2750396

Parameter	Units	92455089018	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	H1
1,1,1-Trichloroethane	ug/L	ND	ND		30	H1
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	H1
1,1,2-Trichloroethane	ug/L	ND	ND		30	H1
1,1-Dichloroethane	ug/L	ND	ND		30	H1
1,1-Dichloroethene	ug/L	ND	ND		30	H1
1,1-Dichloropropene	ug/L		ND			H1
1,2,3-Trichlorobenzene	ug/L		1.2			H1
1,2,3-Trichloropropane	ug/L	ND	ND		30	H1
1,2,4-Trichlorobenzene	ug/L		0.73J			H1
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	H1
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	H1
1,2-Dichlorobenzene	ug/L	ND	0.33J		30	H1
1,2-Dichloroethane	ug/L	ND	ND		30	H1
1,2-Dichloropropane	ug/L	ND	ND		30	H1
1,3-Dichlorobenzene	ug/L		0.33J			H1
1,3-Dichloropropane	ug/L		ND			H1
1,4-Dichlorobenzene	ug/L	ND	0.38J		30	H1
2,2-Dichloropropane	ug/L		ND			H1
2-Butanone (MEK)	ug/L	ND	ND		30	H1
2-Chlorotoluene	ug/L		ND			H1
2-Hexanone	ug/L	ND	ND		30	H1
4-Chlorotoluene	ug/L		ND			H1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	H1
Acetone	ug/L	ND	ND		30	H1

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

SAMPLE DUPLICATE: 2750396

Parameter	Units	92455089018 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	H1
Bromobenzene	ug/L		ND			H1
Bromochloromethane	ug/L	ND	ND		30	H1
Bromodichloromethane	ug/L	ND	ND		30	H1
Bromoform	ug/L	ND	ND		30	H1
Bromomethane	ug/L	ND	ND		30	H1
Carbon tetrachloride	ug/L	ND	ND		30	H1
Chlorobenzene	ug/L	ND	ND		30	H1
Chloroethane	ug/L	ND	ND		30	H1
Chloroform	ug/L	ND	ND		30	H1
Chloromethane	ug/L	ND	ND		30	H1
cis-1,2-Dichloroethene	ug/L	ND	ND		30	H1
cis-1,3-Dichloropropene	ug/L	ND	ND		30	H1
Dibromochloromethane	ug/L	ND	ND		30	H1
Dibromomethane	ug/L	ND	ND		30	H1
Dichlorodifluoromethane	ug/L		ND			H1
Diisopropyl ether	ug/L		ND			H1
Ethylbenzene	ug/L	ND	ND		30	H1
Hexachloro-1,3-butadiene	ug/L		1.3			H1
m&p-Xylene	ug/L		ND		30	H1
Methyl-tert-butyl ether	ug/L		ND			H1
Methylene Chloride	ug/L	ND	ND		30	H1
Naphthalene	ug/L		1.3			H1
o-Xylene	ug/L		ND		30	H1
p-Isopropyltoluene	ug/L		0.51J			H1
Styrene	ug/L	ND	ND		30	H1
Tetrachloroethene	ug/L	3.6	5.5	42	30	D6,H1
Toluene	ug/L	ND	ND		30	H1
trans-1,2-Dichloroethene	ug/L	ND	ND		30	H1
trans-1,3-Dichloropropene	ug/L	ND	ND		30	H1
Trichloroethene	ug/L	ND	ND		30	H1
Trichlorofluoromethane	ug/L	ND	ND		30	H1
Vinyl acetate	ug/L	ND	ND		30	H1
Vinyl chloride	ug/L	ND	ND		30	H1
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	93			
4-Bromofluorobenzene (S)	%	101	98			
Toluene-d8 (S)	%	100	100			

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

QC Batch: 511851 Analysis Method: EPA 8260D Mod.  
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM  
Associated Lab Samples: 92455130001

METHOD BLANK: 2745156 Matrix: Water  
Associated Lab Samples: 92455130001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.2	11/26/19 13:00	
1,2-Dichloroethane-d4 (S)	%	99	50-150		11/26/19 13:00	
Toluene-d8 (S)	%	91	50-150		11/26/19 13:00	

LABORATORY CONTROL SAMPLE: 2745157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.1	95	70-130	
1,2-Dichloroethane-d4 (S)	%			116	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745381 2745382

Parameter	Units	92455128002 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	ND	20	20	18.9	18.9	94	94	50-150	0	30	
1,2-Dichloroethane-d4 (S)	%						119	119	50-150		30	
Toluene-d8 (S)	%						98	99	50-150		30	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

METHOD BLANK: 2745012

Matrix: Water

Associated Lab Samples: 92455130001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.8	11/27/19 17:13	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.1	11/27/19 17:13	
Butylbenzylphthalate	ug/L	ND	10.0	1.6	11/27/19 17:13	
Chrysene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Di-n-butylphthalate	ug/L	2.9J	10.0	1.8	11/27/19 17:13	
Di-n-octylphthalate	ug/L	ND	10.0	1.8	11/27/19 17:13	
Dibenz(a,h)anthracene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Dibenzofuran	ug/L	ND	10.0	1.5	11/27/19 17:13	
Diethylphthalate	ug/L	ND	10.0	2.4	11/27/19 17:13	
Dimethylphthalate	ug/L	ND	10.0	1.6	11/27/19 17:13	
Fluoranthene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Fluorene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	2.0	11/27/19 17:13	
Hexachlorobenzene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Hexachlorocyclopentadiene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Hexachloroethane	ug/L	ND	10.0	2.0	11/27/19 17:13	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	1.6	11/27/19 17:13	
Isophorone	ug/L	ND	10.0	1.6	11/27/19 17:13	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	2.2	11/27/19 17:13	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.2	11/27/19 17:13	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.7	11/27/19 17:13	
Naphthalene	ug/L	ND	10.0	1.4	11/27/19 17:13	
Nitrobenzene	ug/L	ND	10.0	2.1	11/27/19 17:13	
Pentachlorophenol	ug/L	ND	25.0	2.2	11/27/19 17:13	
Phenanthrene	ug/L	ND	10.0	1.7	11/27/19 17:13	
Phenol	ug/L	ND	10.0	0.92	11/27/19 17:13	
Pyrene	ug/L	ND	10.0	2.1	11/27/19 17:13	
2,4,6-Tribromophenol (S)	%	86	10-137		11/27/19 17:13	
2-Fluorobiphenyl (S)	%	79	13-130		11/27/19 17:13	
2-Fluorophenol (S)	%	80	10-130		11/27/19 17:13	
Nitrobenzene-d5 (S)	%	74	13-130		11/27/19 17:13	
Phenol-d6 (S)	%	84	10-130		11/27/19 17:13	
Terphenyl-d14 (S)	%	84	25-130		11/27/19 17:13	

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.6	87	30-130	
1,2-Dichlorobenzene	ug/L	50	43.6	87	30-130	
1,3-Dichlorobenzene	ug/L	50	43.0	86	20-130	
1,4-Dichlorobenzene	ug/L	50	43.4	87	30-130	
1-Methylnaphthalene	ug/L	50	45.8	92	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	39.8	80	20-130	
2,4,5-Trichlorophenol	ug/L	50	45.2	90	40-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ROW-603

Pace Project No.: 92455130

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	46.9	94	40-130	
2,4-Dichlorophenol	ug/L	50	46.4	93	31-130	
2,4-Dimethylphenol	ug/L	50	46.2	92	30-130	
2,4-Dinitrophenol	ug/L	250	226	90	30-130	
2,4-Dinitrotoluene	ug/L	50	50.3	101	49-130	
2,6-Dinitrotoluene	ug/L	50	49.7	99	50-130	
2-Chloronaphthalene	ug/L	50	45.2	90	30-130	
2-Chlorophenol	ug/L	50	45.0	90	30-130	
2-Methylnaphthalene	ug/L	50	45.0	90	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	43.0	86	30-130	
2-Nitroaniline	ug/L	100	95.4	95	40-130	
2-Nitrophenol	ug/L	50	47.5	95	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	43.5	87	20-130	
3,3'-Dichlorobenzidine	ug/L	100	83.6	84	10-150	
3-Nitroaniline	ug/L	100	98.6	99	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	99.5	99	40-130	
4-Bromophenylphenyl ether	ug/L	50	44.2	88	30-130	
4-Chloro-3-methylphenol	ug/L	100	92.9	93	30-130	
4-Chloroaniline	ug/L	100	90.3	90	20-130	
4-Chlorophenylphenyl ether	ug/L	50	43.9	88	20-130	
4-Nitroaniline	ug/L	100	91.6	92	40-130	
4-Nitrophenol	ug/L	250	243	97	10-130	
Acenaphthene	ug/L	50	46.8	94	30-130	
Acenaphthylene	ug/L	50	50.1	100	30-130	
Aniline	ug/L	50	40.9	82	20-130	
Anthracene	ug/L	50	50.3	101	50-130	
Benzo(a)anthracene	ug/L	50	47.9	96	50-130	
Benzo(a)pyrene	ug/L	50	51.7	103	50-130	
Benzo(b)fluoranthene	ug/L	50	50.3	101	50-130	
Benzo(g,h,i)perylene	ug/L	50	50.1	100	50-130	
Benzo(k)fluoranthene	ug/L	50	50.2	100	50-130	
Benzoic Acid	ug/L	250	202	81	10-130	
Benzyl alcohol	ug/L	100	88.7	89	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	42.1	84	30-130	
bis(2-Chloroethyl) ether	ug/L	50	42.9	86	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.9	92	50-130	
Butylbenzylphthalate	ug/L	50	46.5	93	50-150	
Chrysene	ug/L	50	45.9	92	50-130	
Di-n-butylphthalate	ug/L	50	49.3	99	50-130	
Di-n-octylphthalate	ug/L	50	48.6	97	50-130	
Dibenz(a,h)anthracene	ug/L	50	50.9	102	40-130	
Dibenzofuran	ug/L	50	45.2	90	40-130	
Diethylphthalate	ug/L	50	45.4	91	40-130	
Dimethylphthalate	ug/L	50	44.6	89	40-130	
Fluoranthene	ug/L	50	49.0	98	30-130	
Fluorene	ug/L	50	47.2	94	20-130	
Hexachloro-1,3-butadiene	ug/L	50	43.2	86	10-130	

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

LABORATORY CONTROL SAMPLE: 2745013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	46.6	93	30-130	
Hexachlorocyclopentadiene	ug/L	50	50.1	100	10-150	
Hexachloroethane	ug/L	50	43.5	87	10-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	50.5	101	40-130	
Isophorone	ug/L	50	43.6	87	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	43.6	87	30-130	
N-Nitrosodimethylamine	ug/L	50	41.5	83	10-130	
N-Nitrosodiphenylamine	ug/L	50	46.5	93	30-130	
Naphthalene	ug/L	50	45.8	92	20-130	
Nitrobenzene	ug/L	50	43.8	88	20-130	
Pentachlorophenol	ug/L	100	109	109	10-140	
Phenanthrene	ug/L	50	47.3	95	50-130	
Phenol	ug/L	50	46.3	93	10-130	
Pyrene	ug/L	50	47.1	94	50-130	
2,4,6-Tribromophenol (S)	%			109	10-137	
2-Fluorobiphenyl (S)	%			83	13-130	
2-Fluorophenol (S)	%			89	10-130	
Nitrobenzene-d5 (S)	%			80	13-130	
Phenol-d6 (S)	%			94	10-130	
Terphenyl-d14 (S)	%			85	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745014 2745015

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454931001	Result	Spike Conc.	Spike Conc.								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	26.0	22.5	52	45	30-130	14	30		
1,2-Dichlorobenzene	ug/L	ND	50	50	26.2	22.7	52	45	30-130	14	30		
1,3-Dichlorobenzene	ug/L	ND	50	50	25.5	22.2	51	44	20-130	14	30		
1,4-Dichlorobenzene	ug/L	ND	50	50	25.9	22.6	52	45	30-130	14	30		
1-Methylnaphthalene	ug/L	ND	50	50	27.0	24.1	54	48	30-130	11	30		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	24.2	21.1	48	42	20-130	13	30		
2,4,5-Trichlorophenol	ug/L	ND	50	50	26.0	23.2	52	46	40-130	11	30		
2,4,6-Trichlorophenol	ug/L	ND	50	50	27.2	24.0	54	48	40-130	12	30		
2,4-Dichlorophenol	ug/L	ND	50	50	26.6	23.6	53	47	31-130	12	30		
2,4-Dimethylphenol	ug/L	ND	50	50	27.2	23.4	54	47	30-130	15	30		
2,4-Dinitrophenol	ug/L	ND	250	250	142	144	57	58	30-130	1	30		
2,4-Dinitrotoluene	ug/L	ND	50	50	33.6	32.6	67	65	49-130	3	30		
2,6-Dinitrotoluene	ug/L	ND	50	50	30.3	28.2	61	56	50-130	7	30		
2-Chloronaphthalene	ug/L	ND	50	50	27.1	24.3	54	49	30-130	11	30		
2-Chlorophenol	ug/L	ND	50	50	26.4	23.3	53	47	30-130	13	30		
2-Methylnaphthalene	ug/L	ND	50	50	26.3	23.9	53	48	30-130	10	30		
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	22.7	20.2	45	40	30-130	11	30		
2-Nitroaniline	ug/L	ND	100	100	58.6	53.8	59	54	40-130	8	30		
2-Nitrophenol	ug/L	ND	50	50	28.9	25.1	58	50	20-130	14	30		

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### QUALITY CONTROL DATA

Project: ROW-603  
Pace Project No.: 92455130

Parameter	Units	2745014		2745015		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	21.0	19.4	42	39	20-130	8	30		
3,3'-Dichlorobenzidine	ug/L	ND	100	100	63.5	59.7	64	60	10-150	6	30		
3-Nitroaniline	ug/L	ND	100	100	60.0	55.9	60	56	40-130	7	30		
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	69.3	67.8	69	68	40-130	2	30		
4-Bromophenylphenyl ether	ug/L	ND	50	50	27.7	25.7	55	51	30-130	8	30		
4-Chloro-3-methylphenol	ug/L	ND	100	100	51.8	47.4	52	47	30-130	9	30		
4-Chloroaniline	ug/L	ND	100	100	55.0	48.8	55	49	20-130	12	30		
4-Chlorophenylphenyl ether	ug/L	ND	50	50	26.9	24.4	54	49	20-130	10	30		
4-Nitroaniline	ug/L	ND	100	100	64.9	64.3	65	64	40-130	1	30		
4-Nitrophenol	ug/L	ND	250	250	88.0	99.0	35	40	10-130	12	30		
Acenaphthene	ug/L	ND	50	50	28.5	25.7	57	51	30-130	10	30		
Acenaphthylene	ug/L	ND	50	50	30.5	27.4	61	55	30-130	11	30		
Aniline	ug/L	ND	50	50	21.4	17.9	43	36	20-130	18	30		
Anthracene	ug/L	ND	50	50	34.4	32.9	69	66	50-130	4	30		
Benzo(a)anthracene	ug/L	ND	50	50	36.5	35.2	73	70	50-130	4	30		
Benzo(a)pyrene	ug/L	ND	50	50	39.0	37.8	78	76	50-130	3	30		
Benzo(b)fluoranthene	ug/L	ND	50	50	36.9	36.8	74	74	50-130	0	30		
Benzo(g,h,i)perylene	ug/L	ND	50	50	39.9	38.4	80	77	50-130	4	30		
Benzo(k)fluoranthene	ug/L	ND	50	50	38.0	36.8	76	74	50-130	3	30		
Benzoic Acid	ug/L	ND	250	250	63.3	65.1	25	26	10-130	3	30		
Benzyl alcohol	ug/L	ND	100	100	48.9	44.8	49	45	20-130	9	30		
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	25.4	22.5	51	45	30-130	12	30		
bis(2-Chloroethyl) ether	ug/L	ND	50	50	27.6	24.0	55	48	30-130	14	30		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	32.8	32.1	66	64	50-130	2	30		
Butylbenzylphthalate	ug/L	ND	50	50	32.9	32.2	66	64	50-150	2	30		
Chrysene	ug/L	ND	50	50	35.7	34.1	71	68	50-130	5	30		
Di-n-butylphthalate	ug/L	ND	50	50	33.6	32.7	67	65	50-130	3	30		
Di-n-octylphthalate	ug/L	ND	50	50	34.1	33.3	68	67	50-130	2	30		
Dibenz(a,h)anthracene	ug/L	ND	50	50	39.9	37.6	80	75	40-130	6	30		
Dibenzofuran	ug/L	ND	50	50	28.2	25.1	56	50	40-130	12	30		
Diethylphthalate	ug/L	ND	50	50	31.0	30.6	62	61	40-130	1	30		
Dimethylphthalate	ug/L	ND	50	50	28.4	27.0	57	54	40-130	5	30		
Fluoranthene	ug/L	ND	50	50	37.1	36.1	74	72	30-130	3	30		
Fluorene	ug/L	ND	50	50	29.7	26.6	59	53	20-130	11	30		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	24.4	21.2	49	42	10-130	14	30		
Hexachlorobenzene	ug/L	ND	50	50	30.3	28.6	61	57	30-130	6	30		
Hexachlorocyclopentadiene	ug/L	ND	50	50	26.8	23.4	54	47	10-150	13	30		
Hexachloroethane	ug/L	ND	50	50	24.9	21.6	50	43	10-130	14	30		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	39.7	37.5	79	75	40-130	6	30		
Isophorone	ug/L	ND	50	50	26.4	23.9	53	48	30-130	10	30		
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	26.0	23.2	52	46	30-130	11	30		
N-Nitrosodimethylamine	ug/L	ND	50	50	21.4	20.0	43	40	10-130	7	30		
N-Nitrosodiphenylamine	ug/L	ND	50	50	29.6	27.9	59	56	30-130	6	30		
Naphthalene	ug/L	ND	50	50	27.9	24.7	56	49	20-130	12	30		

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.: 92455130

Parameter	Units	2745014		2745015		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92454931001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Nitrobenzene	ug/L	ND	50	50	28.7	25.3	57	51	20-130	13	30		
Pentachlorophenol	ug/L	ND	100	100	72.2	69.6	72	70	10-140	4	30		
Phenanthrene	ug/L	ND	50	50	32.7	31.4	65	63	50-130	4	30		
Phenol	ug/L	ND	50	50	15.2	14.6	30	29	10-130	4	30		
Pyrene	ug/L	ND	50	50	35.5	34.8	71	70	50-130	2	30		
2,4,6-Tribromophenol (S)	%						78	71	10-137				
2-Fluorobiphenyl (S)	%						59	51	13-130				
2-Fluorophenol (S)	%						47	41	10-130				
Nitrobenzene-d5 (S)	%						60	51	13-130				
Phenol-d6 (S)	%						34	32	10-130				
Terphenyl-d14 (S)	%						70	64	25-130				

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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## QUALIFIERS

Project: ROW-603  
Pace Project No.: 92455130

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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-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C9 Common Laboratory Contaminant.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 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.

v3 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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ROW-603

Pace Project No.: 92455130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92455130001	IDW-GW	EPA 3010A	511715	EPA 6010D	511722
92455130001	IDW-GW	EPA 7470A	512546	EPA 7470A	512624
92455130001	IDW-GW	EPA 3510C	511822	EPA 8270E	512197
92455130001	IDW-GW	EPA 8260D	513060		
92455130001	IDW-GW	EPA 8260D Mod.	511851		

### REPORT OF LABORATORY ANALYSIS

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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

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

*H & H*

Project #

**WO# : 92455130**

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



Date/Initials Person Examining Contents: *MC/11-23-19*

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 92T058

Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 3.1    Correction Factor: Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.1

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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>WT</i>			
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input 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: *JJ*

Date: 11/23/19

Project Manager SRF Review: *JJ*

Date: 11/23/19



Document Name:  
Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018  
Page 1 of 2

Document No.:  
F-CAR-CS-033-Rev.06

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.

Project # **WO# : 92455130**

PM: KRG

Due Date: 12/04/19

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

CLIENT: 92-Hart Hick

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

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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

**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.





**Appendix E**  
**Groundwater Forms**



**Stabilization Criteria**

**Primary:** pH +/- 0.1 unit  
 S. Cond. +/- 5%  
 Turb. +/- 10% (<10 NTUs for metals)  
 Water Level: slight or stable drawdown during purging

**Secondary:** DO +/- 0.2 mg/L  
 ORP +/- 10mV

**LOW-FLOW GROUNDWATER SAMPLING RECORD**

Job No: ROW.603

Well ID: MW-1

Well Location: Greensboro, nc

Date: 11/22/19

Facility Name: NCDOT Pennston Property

Top of Casing Elevation (ft msl): \_\_\_\_\_ Casing Material: PVC Volume of Water Per Well Volume: 1.09 gal

Total Well Depth (ft): 30.00 Depth to Water (ft): 23.30 Well Diameter: 2-inch

Sampling Personnel: CDG, JS Screen Interval (ft bgs ): 15 - 30

Type of Pump: Bladder Tubing Material: Bonded polyethylene Pump/Tubing set at: 27 - 29.5 ft.

Weather Conditions: Cloudy 37F 5mph NW wind NOTES: Turbidity not <10 NTU. Well going dry.

Total purge time 1hr 35 min Sheet 1 of 2

**GROUNDWATER SAMPLING PARAMETERS**

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
09:55	23.89	750 mL	~150 mL/m	6.51	15.5	609.6	6.70	214.9	54.53
10:00	24.22	1.5 L	~150 mL/m	6.44	15.8	613.0	6.66	210.4	91.95
10:05	24.70	2.25 L	~150 mL/m	6.69	15.6	617.0	6.67	209.9	30.72
10:10	25.21	3 mL	~150 mL/m	6.54	15.7	619.0	6.68	209.6	25.37
10:15	25.83	3.75 L	~150 mL/m	6.50	15.9	621.0	6.69	209.7	23.50
10:20	26.03	4.5 L	~150 mL/m	6.46	15.9	625.0	6.71	210.0	20.59
10:25	26.50	5.25 L	~150 mL/m	6.67	15.9	628.0	6.73	209.8	28.54
10:30	27.00	6 L	~150 mL/m	6.61	15.5	632.0	6.73	212.2	34.47
10:35	27.20	6.75 L	~150 mL/m	6.61	14.8	634.0	6.74	219.5	62.92
10:40	27.40	7.5 L	~150 mL/m	6.77	14.4	618.3	6.69	219.0	109.30
10:45	27.67	8.25 L	~150 mL/m	5.05	14.7	610.3	6.64	214.2	218.20
10:50	27.89	9 L	~150 mL/m	4.95	15.3	610.5	6.63	209.8	176.20

Other Sample Parameters: N/A

Sampled at: 11:30 Parameters taken with: YSI Pro, MicroTPI turbidimeter

Sample Delivered to: Pace Analytical by FedEx at \_\_\_\_\_.

Field Filtration:  Yes  No If yes, which sample parameters were field filtered: \_\_\_\_\_

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOCs by 8260, 1,4-Dioxane by 8260 SIM, RCRA metals by 6010,

SVOCs by 8270



**Stabilization Criteria**  
**Primary:** pH +/- 0.1 unit  
 S. Cond. +/- 5%  
 Turb. +/- 10% (<10 NTUs for metals)  
 Water Level: slight or stable drawdown during purging  
**Secondary:** DO +/- 0.2 mg/L  
 ORP +/- 10mV

**LOW-FLOW GROUNDWATER SAMPLING RECORD**

Job No: ROW.603

Well ID: MW-1

Well Location: Greensboro, nc

Date: 11/22/19

Facility Name: NCDOT Pennston Property

Top of Casing Elevation (ft msl): \_\_\_\_\_ Casing Material: PVC Volume of Water Per Well Volume: 1.09 gal

Total Well Depth (ft): 30.00 Depth to Water (ft): 23.30 Well Diameter: 2-inch

Sampling Personnel: CDG, JS Screen Interval (ft bgs ): 15 - 30

Type of Pump: Bladder Tubing Material: Bonded polyethylene Pump/Tubing set at: 27 - 29.5 ft.

Weather Conditions: Cloudy 37F 5mph NW wind NOTES: Turbidity not <10 NTU. Well going dry.

Total purge time 1hr 35 min Sheet 2 of 2

**GROUNDWATER SAMPLING PARAMETERS**

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
10:55	28.20	9.75 L	~150 mL/m	4.87	15.5	620.0	6.64	207.7	167.20
11:00	28.39	10.5 L	~150 mL/m	5.33	15.5	627.0	6.66	208.3	117.60
11:05	28.65	11.25 L	~150 mL/m	5.02	15.3	644.0	6.67	208.5	52.77
11:10	28.72	12 L	~150 mL/m	5.03	15.2	637.0	6.66	208.9	36.89
11:15	28.99	12.75 L	~150 mL/m	4.96	15.6	632.0	6.64	210.2	19.28
11:20	29.07	13.5 L	~150 mL/m	5.60	16.0	628.0	6.62	210.7	27.76
11:25	29.19	14.25 L	~150 mL/m	4.27	16.2	623.0	6.62	212.3	39.59
11:30	29.27	15 L	~150 mL/m	3.75	16.3	617.0	6.61	212.4	59.92

Other Sample Parameters: \_\_\_\_\_

Sampled at: 11:30 Parameters taken with: YSI Pro, MicroTPI turbididmeter

Sample Delivered to: Pace Analytical by FedEx at \_\_\_\_\_.

Field Filtration:  Yes  No If yes, which sample parameters were field filtered: \_\_\_\_\_

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOCs by 8260, 1,4-Dioxane by 8260 SIM, RCRA metals by 6010,

SVOCs by 8270



**Stabilization Criteria**

**Primary:** pH +/- 0.1 unit  
 S. Cond. +/- 5%  
 Turb. +/- 10% (<10 NTUs for metals)  
 Water Level: slight or stable  
 drawdown during purging

**Secondary:** DO +/- 0.2 mg/L  
 ORP +/- 10mV

**LOW-FLOW GROUNDWATER SAMPLING RECORD**

Job No: ROW.603

Well ID: MW-2

Well Location: Greensboro NC

Date: 11/22/19

Facility Name: NCDOT Pennston Property

Top of Casing Elevation (ft msl): \_\_\_\_\_ Casing Material: PVC Volume of Water Per Well Volume: 0.45 gal

Total Well Depth (ft): 32.00 Depth to Water (ft): 29.23 Well Diameter: 2-inch

Sampling Personnel: CDG, JS Screen Interval (ft bgs ): 17 - 32

Type of Pump: Bladder Tubing Material: Bonded polyethylene Pump/Tubing set at: ~31 ft.

Weather Conditions: Cloudy 42F 3mph NW wind NOTES: Unable to measure DTW below 31.6 ft, WLM seating on top of pump. Sheet 1 of 2

**GROUNDWATER SAMPLING PARAMETERS**

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
08:00	30.98	500 mL	~100 mL/m	11.25	13.0	136.0	7.23	194.8	250.00
08:05	31.06	1 L	~100 mL/m	10.71	13.2	122.9	6.55	197.0	217.30
08:10	31.19	1.5 L	~100 mL/m	10.36	13.7	120.3	6.43	185.7	206.20
08:15	31.30	2.0 L	~100 mL/m	10.20	13.7	121.1	6.40	176.1	135.10
08:20	31.48	2.5 L	~100 mL/m	10.17	13.7	119.9	6.38	160.5	59.54
08:25	31.60	3.0 L	~100 mL/m	10.14	13.8	116.9	6.36	136.0	31.00
08:30		3.5 L	~100 mL/m	10.03	13.9	115.1	6.36	102.4	18.99
08:35		4.0 L	~100 mL/m	10.06	13.7	114.4	6.36	74.5	18.81
08:40		4.5 L	~100 mL/m	10.21	13.6	115.7	6.36	85.4	32.63
08:45		5.0 L	~100 mL/m	10.26	13.4	115.7	6.39	118.7	59.11
08:50		5.5 L	~100 mL/m	10.35	13.5	115.1	6.38	143.1	33.54
08:55		6.0 L	~100 mL/m	10.52	13.6	114.6	6.43	158.6	18.42

Other Sample Parameters: N/A

Sampled at: 09:05 Parameters taken with: YSI Pro, MicroTPI turbidimeter

Sample Delivered to: Pace Analytical by FedEx at \_\_\_\_\_.

Field Filtration:  Yes  No If yes, which sample parameters were field filtered: \_\_\_\_\_

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOCs by 8260, 1,4-Dioxane by 8260 SIM, RCRA metals by 6010, SVOCs by 8270



**Stabilization Criteria**  
**Primary:** pH +/- 0.1 unit  
 S. Cond. +/- 5%  
 Turb. +/- 10% (<10 NTUs for metals)  
 Water Level: slight or stable drawdown during purging  
**Secondary:** DO +/- 0.2 mg/L  
 ORP +/- 10mV

**LOW-FLOW GROUNDWATER SAMPLING RECORD**

Job No: ROW.603

Well ID: MW-2

Well Location: Greensboro, NC

Date: 11/22/19

Facility Name: NCDOT Pennston Property

Top of Casing Elevation (ft msl): \_\_\_\_\_ Casing Material: PVC Volume of Water Per Well Volume: 0.45 gal

Total Well Depth (ft): 32.00 Depth to Water (ft): 29.23 Well Diameter: 2-inch

Sampling Personnel: CDG, JS Screen Interval (ft bgs): 17 - 32

Type of Pump: Bladder Tubing Material: Bonded polyethylene Pump/Tubing set at: ~31 ft.

Weather Conditions: Cloudy 42F 3mph NW wind NOTES: Turbidity not <10 NTU. Well going dry. WLM seating on top of pump. Sheet 2 of 2

**GROUNDWATER SAMPLING PARAMETERS**

<u>Time</u>	<u>Water Level</u>	<u>Volume Pumped</u>	<u>Pumping Rate</u>	<u>DO (mg/l)</u>	<u>Temp. (°C)</u>	<u>S. Cond. (µS/cm)</u>	<u>pH (SU)</u>	<u>ORP (mV)</u>	<u>Turbidity (NTU)</u>
09:00		6.5 L	~100 mL/m	10.74	13.6	114.0	6.44	165.7	15.05
09:05		7.0 L	~100 mL/m	10.61	13.6	112.5	6.47	174.7	10.86

Other Sample Parameters: N/A

Sampled at: 09:05 Parameters taken with: YSI Pro, MicroTPI turbididmeter

Sample Delivered to: Pace Analytical by FedEx at \_\_\_\_\_.

Field Filtration:  Yes  No If yes, which sample parameters were field filtered: \_\_\_\_\_

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOCs by 8260, 1,4-Dioxane by 8260 SIM, RCRA metals by 6010, SVOCs by 8270



**Stabilization Criteria**  
**Primary:** pH +/- 0.1 unit  
 S. Cond. +/- 5%  
 Turb. +/- 10% (<10 NTUs for metals)  
 Water Level: slight or stable drawdown during purging  
**Secondary:** DO +/- 0.2 mg/L  
 ORP +/- 10mV

**LOW-FLOW GROUNDWATER SAMPLING RECORD**

Job No: ROW.603

Well ID: MW-4

Well Location: Greensboro,nc

Date: 11/22/19

Facility Name: NCDOT Pennston Property

Top of Casing Elevation (ft msl): \_\_\_\_\_ Casing Material: PVC Volume of Water Per Well Volume: 0.29

Total Well Depth (ft): 31.00 Depth to Water (ft): 29.05 Well Diameter: 2-inch

Sampling Personnel: CDG, JS Screen Interval (ft bgs ): 16 - 31

Type of Pump: Peristaltic Tubing Material: Polyethylene Pump/Tubing set at: 30 ft.

Weather Conditions: Cloudy 47F 2 mph NW wind NOTES: \_\_\_\_\_

**GROUNDWATER SAMPLING PARAMETERS**

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
12:30	29.17	750 mL	~150 mL/m	5.13	16.6	166.5	7.05	-13.5	428.00
12:35	29.18	1.5 L	~150 mL/m	4.71	16.3	156.2	6.80	-13.3	156.30
12:40	29.19	2.25 L	~150 mL/m	4.86	16.3	159.0	6.77	17.8	66.67
12:45	29.19	3.0 L	~150 mL/m	4.78	16.4	163.8	6.78	36.6	30.33
12:50	29.20	3.75 L	~150 mL/m	4.36	17.2	163.4	6.77	54.3	23.13
12:55	29.20	4.5 L	~150 mL/m	4.32	17.2	163.3	6.77	59.2	5.85

Other Sample Parameters: N/A

Sampled at: 12:55 Parameters taken with: YSI Pro, MicroTPI turbidimeter

Sample Delivered to: Pace Analytical by FedEx at \_\_\_\_\_

Field Filtration:  Yes  No If yes, which sample parameters were field filtered: \_\_\_\_\_

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOCs by 8260, 1,4-Dioxane by 8260 SIM, RCRA metals by 6010,

SVOCs by 8270

## **Appendix F**

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





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

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## CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 8 drums of non-hazardous contaminated material received on 11/21/2019 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcels 13, 14 & 15 near 5771 Eckerson Road  
Greensboro, NC

EC Waste ID #: 111914

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

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

Signature

Thomas W. Hammett  
CEO  
Evo Corporation



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

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## CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 2 drums of non-hazardous contaminated water received on 11/21/2019 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcels 13, 14 & 15 near 5771 Eckerson Road  
Greensboro, NC

EC Waste ID #: 111914

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

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

Signature

Thomas W. Hammett  
CEO  
Evo Corporation

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

81484

### GENERATOR INFORMATION

Generator: NCDOT

Phone: 919-707-6859

Site Address: 5771 Eckerson Rd

City/State: Greensboro NC

Contact: Gordon Box

*Chase Goodwin as Agent of NCDOT*

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

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

Material: Soil

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

Contaminant: Non-hazardous VOCs

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

Quantity



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: 11-21-19

### FACILITY INFORMATION

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Evo Project #: 111914

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: 11-21-19

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.

81485

### GENERATOR INFORMATION

Generator: NCDOT Phone: 919-707-6859  
Site Address: 5771 Eckerson Rd  
City/State: Greensboro NC Contact: Gordon Box

*Chase Goodwin as Agent of NCDOT*

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_ Material: Water  
Empty Weight (lbs): \_\_\_\_\_ Contaminant: Non-hazardous VOCs  
Net Weight (lbs): \_\_\_\_\_

Quantity

2

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: 

Date: 11-21-19

### FACILITY INFORMATION

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

111914  
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: 

Date: 11-21-19

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier